

2019-2020



UNIVERSITY OF TORONTO
FACULTY OF DENTISTRY

Academic Calendar

Faculty of Dentistry Academic Calendar 2019-2020

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Dean's Message

Welcome to the 2019 - 2020 academic year!

Drawing upon our over 140 years as leaders in dentistry teaching and innovation, the Faculty of Dentistry at the University of Toronto is committed to building upon our strengths across research, education, and clinical practice. With over 250 staff and faculty, and over 700 instructors, we provide our students with the skills necessary to excel in their chosen profession.

In addition to offering DDS as well as MSc and PhD degrees, we are unique in providing graduate programs in all 10 recognized dental specialties. We offer programs for internationally-trained dentists to achieve a DDS degree, and for internationally trained specialists to receive their qualifications. We are the largest dental school in Canada, graduating approximately 120 DDS students every year, with approximately 95 MSc and 25 PhD students currently enrolled.

Yet, our strength as a Faculty comes not from numbers but from the passionate engagement of our students, faculty and staff. As we provide essential health services to the wider community, and give our students a strong academic foundation from which to develop their clinical skills, we also enrich their learning experience through community service/outreach opportunities and extra-curricular programming.

This academic calendar will serve as an important resource for the year ahead. More than sessional dates and curriculum information, you will also find here helpful information on awards and financial aid, as well as a brief introduction to our Student Services Office, led by our Faculty's Registrar, Ms. Samantha Freeman-Attwood, and the support provided by our Director of Student Life, Dr. Richard Rayman. I encourage you to reach out to both the Registrar and Director of Student Life, who will be of invaluable assistance to you during your time here. They can put you in touch with the resources you may require – from peer mentors to on-campus support programming – and can guide you to any of the services you may require.

Wishing you a rewarding and successful year ahead,

Daniel Haas,
Dean, Faculty of Dentistry

Important Notices

Changes in Programs of Study and/or Courses

The programs of study that our calendar lists and describes are available for the year(s) to which the calendar applies, and thus, may not necessarily be available in other years. If the University or the Faculty must change or withdraw the content of programs of study, all reasonable advance notice and alternative instruction will be provided. The University will not, however, be liable for any loss, damages, or other expenses that such changes might cause.

For each program of study offered by the University through the Faculty, the courses necessary to complete the minimum requirements of the program will be made available annually. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, requirements for promotion and timetables without prior notice.

Regulations and Policies

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms.

The University has several policies that are approved by the Governing Council and these policies apply to all students. Each student must become familiar with said policies. The rules and regulations of the Faculty are listed in this calendar. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the calendar, which may be amended from time to time.

All University policies can be found at:

http://www.governingcouncil.utoronto.ca/Governing_Council/policies.htm

Those which are of particular importance to students are:

[Code of Behaviour on Academic Matters](#)

[Code of Student Conduct](#)

[University Assessment and Grading Practices Policy](#)

[Policy on Official Correspondence with Students](#)

[Standards of Professional Practice Behaviour for all Health Professional Students](#)

More information about students' rights and responsibilities can be found at:

[Office of the Vice-Provost, Students](#)

Enrolment Limitations

The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available, while at the same time maintaining the quality of instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the calendar, and to withdraw courses or sections for which enrolment or resources are insufficient. The University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

Copyright in Instructional Settings

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or other similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by students with disabilities, the instructor's consent will not be unreasonably withheld.

Person I.D. (Student Number)

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the [Student Academic Records: Guidelines Concerning Access to Official Student Academic Records](#), strictly controls access to Person I.D. numbers. The University assumes and expects that students will protect the confidentiality of their Person I.D.'s.

[Fees and Other Charges](#)

The University reserves the right to alter the fees and other charges described in the calendar.

Freedom of Information and Privacy Act

The University of Toronto respects your privacy.

The University of Toronto has established the FIPP Office to handle matters related to the [Freedom of Information and Protection of Privacy Act](#), which supports access to University records and protection of privacy.

It is collected for the purpose of administering admissions, registration, academic programs, university-related student activities, activities of student societies, safety, financial assistance and awards, graduation and university advancement, and reporting to government.

In addition, the Ministry of Training, Colleges, and Universities has asked that we notify you of the following: The University of Toronto is required to disclose personal information such as Ontario Education Numbers, student characteristics and educational outcomes to the Minister of Training, Colleges and Universities under [s. 15 of the Ministry of Training, Colleges and Universities Act, Chapter M.19](#), as amended. The Ministry collects this data for purposes such as planning, allocating

and administering public funding to colleges, universities and other post-secondary educational and training institutions and to conduct research and analysis, including longitudinal studies, and statistical activities conducted by or on behalf of the ministry for purposes that relate to post-secondary education and training. Further information on how the Minister of Training, Colleges and Universities uses this personal information is available on the [Ministry's website](#).

At all times it will be protected in accordance with the [Freedom of Information and Protection of Privacy Act \(FIPPA\)](#). If you have questions, please refer to the University's FIPPA [website](#) or contact the University's FIPP Coordinator at McMurrich Building, room 104, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

Overview of the Faculty

History

The Faculty of Dentistry at the University of Toronto was founded as the School of Dentistry by the Royal College of Dental Surgeons of Ontario in 1875. Seven years earlier, in 1868, the College had been given the dual responsibilities of licensing and dental education when the Province of Ontario, in one of its first legislative actions, passed the "Act Respecting Dentistry."

The School began its affiliation with the University of Toronto in 1888, when it established the degree of Doctor of Dental Surgery (DDS). It was not until 1925, however, that the Royal College of Dental Surgeons formally relinquished its teaching function in order to permit the School to become a Faculty at the University of Toronto. At that time, the College agreed that the University should conduct all examinations and forward to the College annually the list of those candidates for Ontario licensure who had met the conditions prescribed for the degree of Doctor of Dental Surgery.

The Faculty is now the largest dental school in Canada. It graduates approximately 120 qualified dentists each year. It also educates specialists in Dental Anaesthesia, Dental Public Health, Endodontics, Oral and Maxillofacial Surgery, Oral Pathology and Oral Medicine, Oral and Maxillofacial Radiology, Orthodontics, Pediatric Dentistry, Periodontology and Prosthodontics, and provides future teachers of dentistry to universities across Canada through its MSc and PhD programs.

The training of dental auxiliaries was for many years an important aspect of the Faculty's activities. A program in Dental Nursing existed from the 1920s until 1960, and a diploma in Dental Hygiene was awarded from 1952 until 1977, when it was then transferred over to the community colleges. Beginning in 1976-77 the Faculty offered a special degree program, the BScD (Dental Hygiene), for a limited number of dental hygienists who wished to prepare themselves for academic positions or administrative responsibilities in the community colleges. This program was suspended in 2003.

In addition to its teaching function, the Faculty of Dentistry has a major commitment to dental research. The Faculty has a long tradition of research and is now not only the foremost dental research centre in Canada but also has established a well-earned international reputation.

Areas of research strength and future growth in the Faculty include multidisciplinary approaches in the fields of biomaterials, connective and mineralized tissue biology, dental public health, education research, microbiology, oral pathology and cancer, pain and neuroscience, and wound healing. A number of DDS students have the opportunity to be involved in research through summer programming.

Dentistry Library

U of T's Dentistry Library is the only dedicated academic dentistry library in Canada. It is part of University of Toronto Libraries, which is the largest academic library system in Canada and is one of the top 10 academic library systems in North America (Association of Research Libraries rankings). The library is formally known as The Dental Library of the University of Toronto and the Harry R. Abbott Memorial Library. The Harry R. Abbott Memorial Library was established in 1925 as the result of a bequest in memory of a graduate, the late Dr. Harry R. Abbott. The Library is staffed by two librarians, one library technician and several part-time student employees.

The Library is located on the second floor of the Faculty of Dentistry building, occupying 700 square metres. It has one Group Study Room, two large Reading Room with 60 study carrels, 58 multi-user table seating, and 19 lounge seating. There are two computer labs consisting of 15 networked PCs and 2 multifunctional machines with print/photocopy/scan capabilities. One lab has a projector for instruction sessions related to library research or software training.

The Library's [website](#) provides a gateway to all the library collections and services including links to e-journals and a list of recent acquisitions.

Our acquisition process ensures that we hold all university-level dentistry books from major publishers as well as many other important oral health sciences books and selected association publications. Collections are purchased in all formats to meet the varying of preferences and styles of current students and faculty. The library offers a wide range of electronic resources: In addition to e-journals and e-books, the library subscribes to all the major databases for academic research including Ovid Medline, Scopus, Cochrane Library, ProQuest Dissertations and Theses, and Web of Science, etc. All U of T dental students, faculty, and staff have access to electronic resources both on and off campus. For print materials, the most recent and more popular dentistry related print collections are located in the Dentistry Library, with additional resources housed in the Gerstein Science Information Centre and UTL at Downsview (remote storage). University of Toronto students and staff members can check out print materials from the library. Borrowing privileges are extended under certain conditions to graduates of the Faculty and other extramural readers. Materials not available through the UofT Libraries can be requested free of charge through our Interlibrary Loan (ILL) service – RACER.

During the academic year, the library is open from 8:30 am to 8:30 pm. On Fridays, the library is open from 8:30 am to 6:00 pm. When the Library is closed, students may access other University of Toronto libraries such as Robarts Library or Gerstein Library.

Degrees and Certificates Offered by the Faculty

The degree offered by the Faculty is:

Doctor of Dental Surgery – DDS

Graduate degrees offered through the School of Graduate Studies are:

Doctor of Philosophy – PhD

Master of Science – MSc

Both the PhD. and MSc. degree programs offer:

- 1) Research training – offered to graduates of any program who have an interest in dental research
- 2) Research training combined with dental specialty training – limited to graduates with a DDS or equivalent degree

The PhD program that offers research training only, may be full-time or flexible-time.

Dental graduates enrolled in 2) will be eligible for Specialty Fellowship or Board Certification in the following programs:

Dental Anaesthesia

Dental Public Health

Endodontics

Oral and Maxillofacial Surgery

Oral Pathology and Oral Medicine

Oral and Maxillofacial Radiology

Orthodontics

Pediatric Dentistry

Periodontology

Prosthodontics

Detailed information concerning all the specialty programs is to be found in this Calendar in the [Graduate Programs section](#).

Continuing Dental Education

A number of shorter intensive courses of instruction for dental graduates are provided each academic session to update knowledge of particular fields of dentistry, and to familiarize graduates with newer methods and procedures in various clinical areas. Further information can be found on the Faculty's Continuing Dental Education [website](#).

Faculty Governance and Administration

Faculty of Dentistry policies are established by our Faculty Council following prior consideration by one or more of the appropriate standing committees at the Faculty.

Representatives from the undergraduate and graduate students serve as members of Council, along with academic staff members, representatives of the part-time Instructors in the Faculty of Dentistry, representatives of the Royal College of Dental Surgeons, and representatives of the administrative staff.

In addition to Faculty Council, students are represented on the majority of the Faculty's standing committees.

The administration of the Faculty is the responsibility of the Dean, assisted by the Vice Dean, Education; Vice Dean, Research; Associate Dean, Undergraduate Education; Associate Dean, Graduate Education; Assistant Dean, Director of Clinics; and Assistant Dean, Administration and Chief Administrative Officer.

Officers of the University 2019-2020

A list of officials of the University of Toronto can be found on the [Governing Council website](#).

Officers of the Faculty of Dentistry 2019-2020

Dean

Daniel Haas

Vice Dean, Education

Jim Yuan Lai

Vice Dean, Research

Bernhard Ganss

Associate Dean, Undergraduate Education

Laura Tam

Associate Dean, Graduate Education

Ernest Lam

Assistant Dean, Administration and Chief Administrative Officer

Mary Choi

Assistant Dean, Director of Clinics

James Posluns

Director of Continuing Dental Education

Christopher Swayze

Director of Advancement

Selina Esteves

Director of Student Life

Richard Rayman

Faculty Registrar and Faculty Secretary

Samantha Freeman-Attwood

Faculty Librarian

Helen He

Endowed Chairs 2019-2020

Dempster, L., Kamienski Professorship in Dental Education Research

Finer, Y., George Zarb/Nobel Biocare Chair in Prosthodontics

Haas, D., Arthur Zwingenberger Decanal Chair

Lam, E., Dr. Lloyd and Mrs. Kay Chapman Chair in Clinical Sciences

Faculty Members 2019-2020

Dean Emeriti

Mock, D.

Professors Emeriti

Anderson, D.L.

Anderson, J.D.

Bennick, A.

Davey, K.W.

Ellen, R.P.

Fenton, A.H.

Friedman, S.

Freeman, E.

Heersche, J.N.M.

Leake, J.L.

Lewis, D.W.

Liebgott, B.

Limeback, H.

Main, J.H.P.

Mayhall, J.T.

McComb, D.

Melcher, A.H.

Pharoah, M.

Pilliar, R.M.

Ross, R.B.

Sandham, H.J.

Seltzer, Z.

Sigal, M.

Speck, J.E.

Symington, J.M.

Titley, K.

Torneck, C.D.

Turnbull, R.S.

Watson, P.A.

Zarb, G.A.

Associate Professors Emeriti

Altuna, G.

Dao, T.

Kilmartin, C.

McComb, R.J.

Full-time:

Professors

Bradley, G.

Burgess, K.

Cvitkovitch, D.G.

Davies, J.E.

Deporter, D.

El-Mowafy, O.

Finer, Y.

Ganss, B.

Glogauer, M.

Haas, D.

Hinz, B.

Kishen, A.

Lam, E.

Manolson, M.

McCulloch, C.

Santerre, J.P.

Simmons, C.A.

Suri, S.

Tam, L.E.

Tenenbaum, H.C.

Associate Professors

Azarpazhooh, A.

Basrani, B.

Birek, P.

Bozec, L.

Dempster, L.J.

De Souza, G.M

El-Badrawy, W.

Gong, S-G.

Kulkarni, G.V.

Lawrence, H.P.

Lévesque, C.

Moriarty, T.J.

Nainar, S.M.H.

Prakki, A.

Quiñonez, C.R.

Sone, E.D.

Associate Professors, Teaching Stream

Lai, J.Y.

Assistant Professors

Avivi-Arber, L.

Carneiro, K.

Cioffi, I.

Magalhaes, M.A.

Moayed, M.

Rayman, R.

Shrestha, A.

Assistant Professors, Teaching Stream

Caminiti, M.

Mendes, V.C.

Somogyi-Ganss, E.

Part-time:

Professors

Sessle, B.J.

Associate Professors

Campbell, K.

Daskalogiannakis, I.J.

Goldberg, M.B.

Leong, I.T.

Metaxas, A.

Wilson, W.L.

Assistant Professors

Anderson, G.S.

Andrews, P.

Arat, F.E.

Barlow, W.R.

Blanas, N.

Cash, M.

Cherkas, P.

Chugh, D.

Chvartzaid, D.

Cornell, D.S.

Cuddy, K.

Ghilzon, R.

Katsikeris, N.

Kestenberg, S.H.

Lança, J.

Leung, B.

MacMillan, R.

Malkhassian, G.

Nkansah, P.

Ouanounou, A.

Perschbacher, S.

Rukavina, J.

Sectakof, P.

Sharma-Fung, K.

Shokati, B.

Tenn-Lyn, N.

Wong, M.

Yarascavitch, C.

Lecturers

Black, R.

Clarke, M.

Perschbacher, K.

Rosenbloom, J.

Status-Only:

Professors, Status Only

Kenny, D.J.; LeBlanc, V.; Salter, M.; Seth, A., Stevens. B.

Associate Professors, Status Only

Casas, M.J.; Judd, P.L.; Lee, L. Sutherland, S.E.; Wood, R.E.

Assistant Professors, Status Only

Baghdady, M.; Barrett, E.J.; Brymer, P.A.; Carmichael, R.; Cooney, P.V.; Cowan, D.; Dagys, A.; Fefergrad, I.; Garisto, G; Jenkins, J.; Lam, D.; Maxymiw, W.G.; Peel, S.A.F.; Singhal, S.

Adjunct Professors

Aslanyan, G.; Bosma, R., Gerrow, J.; Marchese, N.; Perry, J., Rashid, F.; Sharma, P.; Vujicic, M

Adjunct Lecturer

Harth, T.

Instructors in Dentistry 2019-2020

~S. Abbaszadeh; G. Aboodi; S. Abuklam; J. Adam; A. Adams; J. Adinata; F. Afonso; M. Aharon; M. Ahmed; K. Aiken; Y. Alali; A. Alamri; ~H. Albaghdadi; S. Alcair; V. Aldana; C. Alexander; J. Al-Humaid; A. Ali; G. Alizadeh; P. Alkumru; ~M. Al Mardini; G. Altuna; ~J. Andrea; S. Andrews; N. Applebaum; E. Aras; L. A.

Arboleda ~L. Arenson; K. Arora; Y. Arudchelvan; K. Ashoo; R. Assai; M. Attia; P. Azzopardi; P. Bahrami; A. Bafail; ~M. Baig; L. Bajcer; A. Baker; N. Baldan; K. Baldota; S. Bambara; G. Barrie; I. Barzilay; M. Bayliss; S. Bazos; V. Behzadian; C. Bellamy; P. Bellingham; H. Berenstein; F. Berger; C. Bernard; D. Bernhard; V. Bertucci; P. Bevilacqua; R. Bhatia; V. Bhide; D. Bikey; S. Bilko; D. Biner; C. Binert-Miller; J. Blackmore; N. Blanas; B. Bohluli; B. Borins; M. Bongard; A. Borenstein; A. Bottner; V. Boyden; J. Bozek; P. Branco; H. Branicky; ~P. Brooks; J. Brown; S. Brown; V. Browne; P. Brymer; J. Bubola; G. Bucciarelli; K. Calzonetti; J. Campbell; E. Cardoso; P. Carnevale; ~M.C. Caro; A. Carvalho; ~M. Cascone; S. Caudry; G. Ceci; ~J. Chadwick; T. Chahal; E. Chan; L. Chan; D. Chandra; S. Chandy; R. Chang; B. Chapnick; L. Chapnick; P. Chapnick; A. Charolia ~D. Chemaly; S. Chemmanam; ~L. Chan; R. Chan; ~A. Chen; Y.-S. Chiu; J. Cho; L. Chohan; Y.-S. Choi; M.-Y. Chou; S. Chow; A. Chung; S. Chung; ~S. Chung; D. Clark; E. Co; A. Coburn; M. Cohen; ~S. Cohen; ~M. Colaiacovo; C. Consky; P. Copp; S. Corber; N. Corcega; T. Costa; P. Countryman; D. Cowan; J. Cruz-Clow; K. Cuddy; R. Cunang; I. Cumandra; M. Daemi; A. Dagys; X. Dai; O. Dalmao; S. Daneshdoost; K. Danielak; K. Dann; M. Darvishan; K. Dave; L. David; ~J.M. Davis; D. Decloux; J. Decoste; M. Deemar; A. DeFilippo; A. DeMarco; R. Del Zotto; A. Delcore; ~C. De Noronha Motta; F. Der; G. Deshpande; S. Dhanji; G. Dimitrijevic; S. Dimitry; E. Dimovski; B. Dirlis; N. DiSanto; D. Douglas; T. D'Onofrio; V. D'Silva; N. D'Souza; S. D'Souza; G. Duviner; S. Dwosh; ~E. Ebrahimi; E. Ebrahimi; D. Eickmeier; H. El-Awour; A. El Hadary; A. El Haddad; N. Elias; A. El-Mowafy; M. El-Rabbany; S. Emam; R. Eng; D. Engelberg; S. Eslambolchi; I. Ezergailes; F. Faizi; F. Faizi; J. Farber; ~D. Farkouh; N. Farsi; A. Fatemi; J. Fava; N. Farsi; R. Fayad; B. Feldman; A. Fenton; E. Fishbein; R. Fisher; J. Fitzgerald; G. Flanagan; M. Florence; J. Foster; A. Foti ; ~R. Fratkin; ~M. Freidman; ~M. Freilich; J. Friedlich; K. Fung; J. Gananam; S. Gangbar; ~J. Garbedian; R. Garcha; E. Garofalo; K. Gavert; E. Geisler; J. Geller; T. Gheorge; A. Ghindea; E. Ghobrial; A. Ghoneim; A. Ghorbani; M. Ghotbi; D. Gibbs; ~M. Gilbert; J. Gillanders; R. Gilles; B. Girard; B. Gitnick; G. Glassman; S. Glazer; H. Goldberg; J. Goldberg; R. Goldberg; S. Goldstein; ~M. Goodman; J. Gordon; P. Goulbourne; D. Greenberg; ~E. Grodecki; H. Grubisa; C. Gruson; A. Guerrero; R. Gutierrez; D. Haas; M. Haas; S. Habib; E. Habsha; ~A. Haddad; S. Hacherian; B. Haj Hamid; N. Hajira; J. Halkiotis; T. Hamdy; D. Hanmer; N. Hanna; V. Hardy; M. Haroun; D. Harris; A. Hassanali; S. Hassanpour; M. Hausmanis; M. Hemsworth; K. Hershenfield; S. Hershenfield; J. Hibberd; L. Hill; R. Hillis; A. Hiltz; ~H. Holmes; S. Honnabovi; M. Huang; S. Huda; D. Humphrey; A. Hunter; T. Imbriglio; K. Ing; P. Ioannidis; L. Iorio; G. Ip; B. Isaac; S. Islam; S. Issa; A. Jack; L. Jacob; M. Jacob; G. Jacobson F. Jaffer; S. Jaffer; C. Jakubowski; T. Jasim; V. Jasim; H. Javidnia; J. Jenkins; D. Jeong; N. Jeyapalan; M. Joseph; N. Joshi; S. Joshi; D. Justa; K. Kaller; D. Kalossikos; H. Kanaan; N. Kang; A. Kaplan; A. Karpova; ~C. Karsli; A. Katchky; A. Katchky; K. Kaura; C. Kay; S. Kay; J. Kellerstein; N. Kemp; ~S. Kemp; J. Kermalli; ~T. Kertesz; ~A. Khadivi; V. Khadivi; S. Kherani; S. Khojasteh; S. Khoshnevis; F. Kienle; J. Kierce; C. Kilmartin; B. Kim; J. Kim; M. Kim; N. Kim; P. Kimos; ~H. Kleib; S.P. Klimitz; J. Knoll; I. Kods; D. Kojic; T. Kokosis; M. Kolivaris; R. Kreher; R. Krishan; A. Kulkarni; L. Laing; C. Laliberte; ~J. Lam; K. Lampzey; B. Lands; G. Lanzberg ~M. Lashuk; R. Lawson; M. Layug; P. Le; I. Leb-Neinstein; D. Lebowitz; N. Ledderhof; K. Lederman; D. Lee; D. Lee; E. Lee; ~K. Lee; K. Lee; S. Lee; R. Leung; H. Levant; D. Levin; R. Lewis; P. Lichtblau; B. Liebgott; B. Lin; ~D. Lin; M. Lin; S. Linardi; E. Lissia; ~R. Lstrom; E. Lo; L. Lo; O. Lo; R. Lo J. Lok; T. Lou; C. Luk; ~J. Macdonald; A. MacDowell; E. Macsween; J. Madras; M. Maggisano; A. Mair; D. Makar; J. Malowany; J. Maltz; J. Manchanda; Z. Manji; J. Mantzoris; M. Marashdeh; ~N. Marchese; R. Marcus; S. Markic; S. Markovik; C. Martine; E. Martins; R. Martins; I. Martino; E. Martins; R. Martins; ~S. Masse; A. Massoud; R. Matsui; ~W. Maxymiwi; G. Mayer; M. Mazariegos; A. McDow; ~T. Meisami; C. Meneses; ~J. Metcalfe; V. Milich; M.

Milligan; F. Mirmohammadali; L. Missulawin; S. Mitri; ~V. Mittal; P. Model; M. Mohsen; Z. Mojdami; M. Mokhtari; A. Moncarz; V. Moncarz; L. N. Montero; I. Montes Hussey; F. Montis; ~A. Moosani; R. Motakef; A. Mousavifar; H. Munroe; S. Murray; B. Nadeau; L. Naderiani; K. Nagai; H. Nagani; A. Najafi; Z. Najirad; N. Nargaski; P. Nasirzadeh; ~S. Naslenas; N. Naurato; K. Navratil; S. Newman; E. Nezon; C. Ng; T. Nguyen; V. Nguyen; D. Nilforoushan; ~I. Nish; D. Nixon; ~J. Noble; J. Ong; C. Oprescu-Havriliuc; G. Organ; J. Oxner; E. Paomees; M. Park; P. Patel; S. Patel; S. Patodia; M. Patrician; ~M. Pavone; D. Paz; G. Pearson; M. Pellos; J. Perlus; A. Persadmehr; N. Pershad; T. Phaneuf; M. Pharoah; ~J.H. Phillips; P. Piccininni; B. Piplani; A. Plaitis; C. Pop; B. Price; J. Prince; K. Priya; ~D. Pstuka; ~W. Pulver; M. Pus; B. Pynn; E. Raimondo; ~L. Raley; M. Ramaswamy; R. Rashed; P. Rashnoo; A. Razek; ~E. Reinish; S. Richmond; J. Rifkind; B. Rittenberg; M. Rizk; A. Romain; H. Rosenberg; D. Rosenthal; M. Roshdy; M. Ross; L. Sadeghinejad; M. Safa; H. Sakarya; F. Salehipour; A. Salsberg; P. Sampaio de Araujo; N. Sanci; S. Sanei; G. Sas; K. Schafer; T. Schipper; L. Schuldt; ~R. Schlosser; R. Schure; E. Schwartz; M. Schwartz; L. Schwartzben; J. Seetner; ~D. Segal; P. Sekatof; S. Sekhon; E. Selnes; B. Sener; K. Serota; A. Seth; ~N. Shapera; R. Sharif; B. Sharma; K. Shaw; M. Shelegey; E. Shem-Tov; J. Shieh; J. Shim; W. Shim; S. Shnier; A. Shojaei; ~P. Sikorski; M. Silverberg; S. Silverman; R. Simon; F. Simone; G. Siu; H. Smith; A. So; A. Soetikno O. Soliman; G. Solomon; ~P. Son; A. Sonza; G. Soo-Chan; M. Sood; T. Sosath; G. Srebrolow; A. Staibano; K. Stallaert; B. Stanley; V.F. Stavro; C. Steele; H. Steiman; ~K. Stevens; V. Stoeva; A. J. Stokl; S. Strauss; P. Stulginski; V. Sugarman; M. Sultan; ~S. Sutherland; ~I. Suwwan; D. Swift; S. Syed; O. Symington; K. Szainwald; ~P. Ta; E. A. Taherian; J. Tai; K. Tait; A. Tan; M. Tang; M. Taskov; A. Tavakoli; J. Tawil; E. Tehrani; W. Teo; R. Termei; H. Thang; H. Tile; M. Tirgari; K. Titley; L. Tobis; J.L. Tomkins; B. Tompson; S. Toong; J. Train; C. Tremblay; A. Tsui; K. Tujar; W. Turner; O. Usman; G. Vahabi; S. Vallipuram; Y. Vandersluis; V. Varathan; A. Varghese; N. Varguise; R. Varshney; M. Varshosaz; S. Vasilakos; V. Vassandrakoumara; R. Vasudeva; ~B. Vendittelli; M. Venditti; E. Venerus; J. Versloot; L. Vertullo; L. Vieira; E. Vlassova; J. Voudouris; T. Voutsas; S. Waese; R. Walker; C. Ward; B. Waters; L. Waschuk; ~E. Watson; B. Waxman; S. Weinberg; M. Weinstein; ~E. Weitzner; F. Weizenberg; L. West; G. Westman; J. Wiles; P. Williams; D. Wolle; K. Wolch; ~Y. Woloszczuk; A. Wong; E. Wong; G. Wong; I. Xu; M. Yakub; L. Yang; L. Yanover; R. Yarascavitch; S. Yeh; S. Yeh; H. Yip; ~W. Yili; A. Yu; E. Yuen; M. Zaitoon; M. Zanjir; M. Zakeri; Q.H.M.S. Zaman; M. Zanjir; J. Zarb; S. Zarrabian; A. Zerehgar; ~K. Zettle; M. Ziedenberg; S. Zienchuk; N. Zinman; V. Zogala; P. Zung; ~K. Zweig
~Status only

[University Health Network](#)

Affiliated Teaching Hospitals

[Baycrest Health Sciences](#)

[Holland Bloorview Kids Rehabilitation Hospital](#)

[Hospital for Sick Children](#)

[Mount Sinai Hospital](#)

[St. Michael's Hospital](#)

[Sunnybrook Health Sciences Centre](#)

Bruce Hord Master Teacher Awards

1985-86

Dr. B. Leibgott

Dr. M. Gelfand

1986-87

Dr. D.G. Woodside

Dr. L. Koutsaris

1987-88

Dr. J. Krupanszky

1988-89

Dr. E.R. Young

Dr. S. Golden

1989-90

Dr. A. Metaxas

Dr. N. Katsikeris

1990-91

Dr. D. Haas

1991-92

Not awarded

1992-93

Dr. G.A. Zarb

Ms. D. Hennyey

1993-94

Not awarded

1994-95

Dr. P. Birek

Dr. R. Sutherland

1995-96

Not awarded

1996-97

Dr. J. Brown

1997-99

Not awarded

1999-00

Dr. D. Haas

Dr. A. Dale

2000-01
Dr. R. S. Turnbull
Dr. I. Barzilay

2001-02
Dr. G. Yared
Ms. L. McKay

2002-03
Dr. D. Locker
Dr. A. Mazzulli

2003-04
Dr. M. Pharoah
Dr. L. Chapnick

2004-05
Dr. L. Tam
Dr. T. Dinh

2005-06
Dr. C. Kilmartin
Dr. J.L. Tomkins

2006-07
Dr. K. Titley
Ms. D. Hennyey

2007-08
Dr. M. Sigal
Dr. J. Rukavina

2008-11
Not awarded

2011-12
Dr. C. Quiñonez
Dr. S. Bazos
Dr. W. Wilson

2012-13
Dr. A. Prakki
Dr. G. Anderson

2013-14
Dr. A. Azarpazhooh
Dr. J. Rosenbloom

2014-15
Dr. R. Diwan
Dr. A. Ouanounou

2015-16

Dr. R. M. Jones

Dr. G. Malkhassian

2016-17

Dr. V. Mendes

Dr. P. Model

2017-18

Dr. G. Anderson

Dr. A. Stokl

2018-19

Dr. M. Caminiti

Dr. P. Brymer

Sessional Dates

2019

August 26 – 30	DDS I Registration and Orientation
August 27 – 30	DDS III Registration and Mandatory Clinical Orientation
August 29 – 30	DDS IV Registration and Mandatory Clinical Orientation
September 1	Last day to receive applications for admission to MSc programs in Dental Specialties (Dental Anaesthesia, Oral Pathology and Oral Medicine, Oral and Maxillofacial Radiology, Orthodontics and Pediatric Dentistry) and for Research beginning in 2020
September 2	LABOUR DAY (University closed)
September 3	Classes begin, clinics open – Fall Term
September 3	DDS II Registration & Classes begin
September 5	Year 1 MSc Program in Dental Public Health begins
September 6	Last day to petition for exemptions – DDS transfer students
September 15	Last day for Graduate student registration
September 28	Last day to receive applications for admission to dental residencies in Toronto Teaching Hospitals beginning in 2020
October 1	Last day to receive applications for admission to MSc program beginning January 2020
October 14	THANKSGIVING DAY (University closed)
November 8	Fall Study Day (Classes/clinics cancelled for DDS I – IV)
December 1	Last day to receive applications for admission to the DDS program beginning in September 2020
December 9	Classes end for DDS I - IV and clinics close for DDS III (14 weeks)
December 11 – 13	Mid-Year Final Examination period for DDS I – III
December 13	Clinics close for DDS IV
December 23 – January 3, 2020	WINTER HOLIDAYS (University closed)

2020

January 6	University reopens – Winter Term
January 6	Classes and clinics begin for DDS I – IV and IDAPP
January 6	IDAPP Registration and Orientation
January 10	CDSC Conference (DDS I – IV classes/clinics cancelled)
January 15	Last day to receive applications for admission to the MSc program in Dental Public Health
January 18	Deadline to withdraw from IDAPP (with refund)
February 11	Research Day (all p.m. classes and clinics cancelled in all programs beginning at 12:00 p.m.)
February 11	Last day to withdraw without academic penalty for DDS I – IV
February 17	FAMILY DAY (University closed)
February 18 – 21	Reading Week (no classes, labs or clinics for DDS I – III and MSc programs)
March 5 – 6	Study Days for NDEB Exams (DDS IV)

- March 9 – 11 Interprofessional Pain Curriculum (DDS III)
- March 30 Last day to receive applications for admission to the Dental Specialty Assessment and Training Program beginning in 2020
- April 3 Classes and clinics end for DDS III (13 weeks)
- April 4 Classes and CCP clinic ends for DDS IV (13 weeks)
- April 6 - May 1 Ancillary clinics and open CCP clinic sessions begin for DDS IV (4 weeks)
- April 6 – May 1 Study Period/Final Examination Period for DDS III
- April 13 – May 1 Oral Examination Period for DDS IV
- April 10 GOOD FRIDAY (University closed)
- April 24 Last day of classes for DDS I (16 weeks)
- April 27 – May 8 Study Period/Final Examination Period for DDS I
- May 1 Clinics close for DDS IV (17 weeks of clinics)
- May 4 Summer session begins for DDS III
- May 7 – 8 ODA Annual Spring Meeting (DDS III classes/clinics cancelled)
- May 15 Last day of classes for DDS II (19 weeks)
- May 18 VICTORIA DAY (University closed)
- May 18 Last day to receive applications for admission to the MSc program in Endodontics, Periodontology and Prosthodontics for 2021-2022
- May 19 – June 12 Study Period/Final Examination Period for DDS II
- June 12 Last day for IDAPP (23 weeks)
- June 30 – July 24 Supplemental Examinations (Preclinical) for DDS I – II
- July 1 CANADA DAY (University closed)
- July 1 Last day to receive applications for admission to the IDAPP program beginning in January 2021
- July 6 – 10 Supplemental Examinations (Didactic) for DDS I - III
- July 24 Summer session ends and clinics close for DDS III (12 weeks clinics time)
- July 26 Year 1 MSc program in Oral Radiology begins
- August 1 Last day to receive applications for admission to the MSc program Oral and Maxillofacial Surgery for 2021-2022
- August 1 Year 1 MSc program in Endodontics begins
- August 2 Year 1 MSc program in Prosthodontics begins
- August 3 CIVIC HOLIDAY (University closed)

A list of relevant dates for the 2019-20 academic year are outlined on the University's [Office of the Vice Provost, Students website](#).

Doctor of Dental Surgery

Note: The regulations in the **Academic Rules and Regulations** section of this Calendar apply to students in the D.D.S. program.

Admission Information

The degree of Doctor of Dental Surgery is the degree to which a candidate is admitted upon the completion of undergraduate education in Dentistry. It is recognized by dental licensing boards as evidence of graduation, although it does not of itself confer the right to practice Dentistry (See section on Certificate of Registration for Dental Practice in this Calendar.) Dental education is designed to unify the basic and clinical sciences, as it is believed that scientific and professional development cannot be sharply differentiated, but should proceed concurrently throughout the dental program.

Admission Requirements

To be eligible for admission into the dentistry program applicants must:

- Applicants must have completed three years of university education (i.e. at least 15 full year courses or equivalent) by end of May 2020.
- Complete the following five prerequisite courses by end of May 2020:
 - a) One full course (or two half courses) in general biochemistry. This course should cover protein chemistry and the chemistry of other biomolecules, cellular metabolism and molecular biology.
 - b) One full course (or two half courses) in general mammalian (human or animal) physiology. This course should cover the following systems: musculoskeletal system; haemostasis mechanisms; haematopoietic system; nervous system; immune system; cardiovascular system; renal physiology; neurophysiology; endocrinology and gastrointestinal physiology.
 - c) Two additional full courses (or four half year courses) in Life Sciences (For example - anatomy, biochemistry, biology, botany, genetics, immunology, microbiology, molecular genetics/biology, neuroscience, nutritional sciences, pharmacology, toxicology, physiology, zoology.)
 - d) One full course (or two half courses) in a Humanities or Social Science (For example - Humanities: anthropology, art history, classics, East Asian studies, English, history, languages, music, Near and Middle Eastern studies, philosophy. Social Sciences: anthropology, economics, geography, management, political science, religious studies, sociology.)
- Achieve a minimum overall grade point average of 3.0 (4.0 scale) for all university work. A grade point average of 3.0 (4.0 scale) at the time of application does not, however guarantee selection. It should be noted that in the last several years, the minimum GPA for those interviewed was 3.85* (4.0 scale).

*Note that courses taken in the academic year, during the proposed year of entry will not be included in the calculation of the applicant's cumulative GPA. Any offer of admission, however, will be contingent upon the successful applicant maintaining an annual GPA of at least 3.0 (4.0 scale) for the current academic year.

*The worst academic year will be dropped from the calculation of an applicant's undergraduate cumulative grade point average provided that (a) the applicant has completed four or more years of university education by May 31st of the proposed year of entry, and (b) the year with the lowest grades is not the applicant's most recently completed year of study.

- Applicants who are currently completing a graduate program must complete all the requirements of their graduate program including thesis defense by June 30th in their respective application year.
- Complete the online assessment test CASPer, to assist with our selection process. Successful completion of CASPer is mandatory in order to maintain admission eligibility.

CASPer is an online test, which, assesses for non-cognitive skills and interpersonal characteristics that we believe are important for successful students and graduates of our program, and will complement the other tools that we use for applicant screening. In implementing CASPer, we are trying to further enhance fairness and objectivity in our selection process.

In order to take CASPer, you will be responsible for securing access to a computer with audio capabilities, a webcam, and a reliable internet connection on your selected test date. CASPer can be taken practically anywhere that you can satisfy the aforementioned requirements. No exceptions will be provided for applicants unable to take CASPer online due to being located at sites where internet is not dependable due to technical or political factors.

Please go to www.takeCASPer.com to sign up for the **Canadian Professional Health Sciences test (CSP10201)** and reserve a test using one piece of government-issued photo ID. You will be provided with a limited number of testing dates and times. Please note that these are the only testing dates available for your CASPer test. There will be no additional tests scheduled. Please use an email address that you check regularly; there may be updates to the test schedule. The tests for the 2020 admission cycle will be open for registration July 2019.

Please direct any inquiries on the test to support@takecasper.com. Alternatively, you may use the chat bubble in the bottom right hand corner of your screen on the takecasper.com website.

The CASPer test is comprised of 12 sections of video and written scenarios. Following each scenario, you will be required to answer a set of probing questions under a time contract. The test typically takes between 75-90 minutes to complete. Each response is graded by a different rater, giving a very robust and reliable view of personal and professional characteristics important to our program. No studying is required for CASPer, although you may want to familiarize yourself with the test structure at takeCASPer.com, and ensure you have a quiet environment to take the test.

CASPer test results are valid for one admissions cycle. Applicants who have already taken the

test in previous years will therefore be expected to re-take it.

- Write either the Canadian or American Dental Aptitude Test (DAT) and arrange for the test results to be forwarded to the Admissions Office. The Academic Average (AA) and Perceptual Ability Test (PAT) scores are part of the admission process. We do not require applicants to complete the Manual Dexterity (MDT) section of the DAT exam. The DAT must have been taken within the last 24 months at the time of submission of your application. For applicants who have written the DAT exam more than once we will use the highest set of DAT scores. To register for the DAT contact:

The Dental Aptitude Test Program
Canadian Dental Association
1815 Alta Vista Drive
Ottawa, ON K1G 3Y6
Telephone: (613) 523-1770
Email: dat@cda-adc.ca
Web site: www.cda-adc.ca

Dental Admission Testing Program
American Dental Association
211 East Chicago Avenue, Suite 600
Chicago, IL 60611, USA
Telephone: (800) 232-1694
Email: datexam@ada.org
Web site: <http://www.ada.org/en/education-careers/dental-admission-test>

- As English is the primary language of instruction and communication at the University of Toronto, applicants must demonstrate an adequate level of proficiency in English, regardless of their citizenship status or country of origin. Applicants from universities outside Canada where English is not the primary language of instruction must provide results of an English language proficiency examination as part of their application. Tests must have been taken **within the last 2 years** at the time of submission of their application. Acceptable proof of English facility must be submitted by the application deadline (December 1). Official test scores must be sent by the testing agency directly to the University of Toronto. Our institution code is 0982. The following tests are recognized:

- a) Test of English as a Foreign (TOEFL): The Minimum requirement is TOEFL PBT - total score 600 + 5.0 on TWE and for TOEFL IBT - total score 100 + 22 on Writing.
- b) Michigan English Language Assessment Battery (MELAB): The minimum requirement is an overall score of 85, with no part below 80.
- c) International English Language Testing System (IELTS) Academic Module: The minimum requirement is an overall band of 6.5, with no band below 6.0.
- d) The Certificate of Proficiency in English (COPE): The minimum requirement is an overall score of 86, with 32 in Writing and 22 in each of the Reading and Listening sections.
- e) Academic Preparation ESL, School of Continuing Studies, University of Toronto: The minimum requirement is a grade of 'B' at the 60/Advanced level.

How To Apply

To apply to the **Doctor of Dental Surgery** program, you must complete an online application form.

You have two paths for application to the Faculty of Dentistry at the University of Toronto. You may choose to apply through one of the following online application systems:

- UTDAS (University of Toronto Dental Application Service); OR,
- AADSAS (American Dental Education Association (ADEA) Application Service)

In addition to the UTDAS application the following documents must be received by the **December 1st** application deadline:

- Non-refundable application service fee of \$ 275.00 CDN payable to the University of Toronto. Payment may be made by credit card, or money order. **We do not accept personal checks or cash.**
- Proof of citizenship (if applicable), i.e. Canadian citizenship or permanent resident status (photocopy only). This document can be mailed directly, faxed to: (416) 979-4944 or sent via e-mail to: admissions@dentistry.utoronto.ca.
- Official transcripts of all previous university and other post-secondary education.* Transcripts must be sent to the Admissions office directly from the issuing institution in a sealed envelope. University of Toronto students applying to the dentistry program do not need to send in their official University of Toronto transcripts. We will download them from ROSI.

*Applicants seeking admission on the basis of official documents that are in a language other than English must submit photocopies of their original documents attached to notarized English translations. In addition, applicants must submit a detailed outline of all courses successfully completed in their university program and arrange for an official transcript to be forwarded directly to the Admissions Office from the institution(s) attended by the application deadline.

- Official DAT score report. Applicants must request original DAT scores to be sent to the Admissions Office directly from the CDA or ADA.
- Official CASPer test results. To be sent directly from casper (applicants request documents to be sent directly from CASPer)
- Proof of English facility (if applicable) sent directly by the testing agency to the University of Toronto.
- Personal statement explaining why you want to pursue a dental career. Do not exceed two pages.
- Essay outlining what you consider to be your greatest accomplishment and the reasons you have chosen to highlight it. Do not exceed one page.

International students are eligible to apply to the dentistry program.

Admission documents need to be mailed to the following address:

Admissions Office
Faculty of Dentistry
124 Edward Street, Room 104
Toronto, ON M5G 1G6

Interviews

By early January, each year, shortlisted applicants will be invited for an interview and a tour of the Faculty of Dentistry. Those not invited for interviews will be informed at this time as well. The interviews are held on one weekend in February each year.

Selection and Notification of Applicants

The selection of applicants is made by the Undergraduate Admission Committee that reports directly to the Council of the Faculty of Dentistry. The criteria for selection are established by the Undergraduate Admission Committee and approved by Faculty Council. Final offers for admission to the IDAPP will be made to selected members of this group of interviewed applicants and will be based upon academic achievement, DAT scores, CASPer test scores, essays and the results of the interview process. In making its decisions the Committee takes all of this information into consideration. By early March, interviewed applicants will be notified by e-mail of the decision made by the Committee with respect to their application.

The decision of the Faculty of Dentistry concerning admission into the Doctor of Dental Surgery is final. No appeal mechanism exists.

A \$2000.00 (CDN) non-refundable deposit will be required from each applicant granted admission. It will be applied to the fees providing he/she registers.

Indigenous Peoples

The Faculty of Dentistry welcomes applications from indigenous peoples (Métis, Status Aboriginal, Non- Status Aboriginal, and Inuit) in recognition of their under-representation in the profession and of the unique contribution that trained members of this group can make. Applications from qualified persons of aboriginal ancestry will receive special consideration for admission.

The Wilson G. Harron Award for Aboriginal Students is available to assist a limited number of students with the financial expenses associated with their dental education.

Applicants who have completed more than one undergraduate University Degree

The Faculty of Dentistry will only consider the most recent undergraduate program of study for all applicants who have completed more than one undergraduate university degree. As well, the worst academic year will be dropped from the calculation of an applicant's cumulative grade point average provided that (a) the applicant has completed four or more years of university education by May 31st of the proposed year of entry, and (b) the year with the lowest grades is not the applicant's most recently completed year of study.

Applicants with a Communicable Disease

All Faculty of Dentistry students are expected to be in a state of health such that they may participate in the academic program, including patient care, without posing a risk to themselves or to others. Students with a communicable disease may pursue their studies only as long as their continued involvement does not pose a health or safety hazard to themselves or others. Such a health or safety hazard, if protracted, may preclude them from participation in clinical work essential to the satisfactory completion of their program of study. The health status of all students shall remain confidential. Registration status for HBV

Carriers remains **CONDITIONAL** until the Expert Panel on Infectious Diseases reviews their case.

Applicants who have failed in previous University Education

Applicants who on two occasions have failed to secure the right to advance to a higher year in their university education and/or who have failed any dental program will normally be refused admission.

Domestic Transfer Requests

Canadian citizens or permanent residents currently enrolled in an accredited Canadian or U.S. Dental School who wish to transfer to the Faculty of Dentistry at the University of Toronto will be considered for admission, **SPACE PERMITTING**, into second year (not third or fourth year). Applicants must meet all academic and English facility requirements for admission into first year. In addition, dental program equivalency with the D.D.S. program at the University of Toronto must be established. Applicants enrolled in Dental Schools where the curriculum is not sufficiently equivalent to allow for direct entry into second year at the University of Toronto are not eligible for transfer consideration. Requests for transfer must be received by the application deadline of **June 30, 2020**. Documentation must include course descriptions for all dental courses completed by the end of the current academic year. Applicants should be aware that the number of second-year places, if any, varies annually and in most years no spaces are available

Counselling

All incoming students will have the opportunity of orientation counselling to discuss student services, financial assistance, enrolment procedures, housing and other concerns. Appointments may be arranged through the Admissions Office.

Accessibility

Academic accommodations are available to support students registered in Dentistry. For further information, including relevant registration information, please visit the [Accessibility Services Website](#).

Admission Deposit

A \$2000 CDN non-refundable deposit will be required from each applicant granted admission. It will be applied to the fees providing he/she registers.

Regulations Governing the Doctor of Dental Surgery Degree Program

1. Registration

Detailed instructions concerning Registration will be mailed to returning and newly admitted students before the beginning of each academic year.

On Registration Day, each student must register in person with the Faculty Registrar at the Dental Building. Students are reminded that payment of at least the first installment of their fees to the University Fees Department is an essential part of the registration procedure. Any fees owing from a previous year must be paid before a student will be allowed to register.

A student who fails to register at the appointed time will be required to pay a Late Registration fee of \$44 plus \$5 for every additional day. Faculty Council may at its discretion refuse a student permission to register late.

Students who have been registered previously in the Faculty and who have successfully obtained standing in all courses in the preceding year are expected to register in person the following session without preliminary application, unless they notify the Faculty Registrar to the contrary.

2. Student Cards

Students are issued with a permanent U of T Student Smartcard, which serves for the duration of their studies at the University of Toronto. This T-Card provides student identification for academic purposes, student activities and student services; it also serves as a library card and, by its ability to store cash value, can be used to purchase photocopies, computer printing, snacks and beverages at select locations on U of T campuses. The loss of the Student Card must be reported promptly to the Student Services Office, and the card must be surrendered if a student withdraws from the University or transfers to another Faculty.

3. First Aid Course and CPR

Students registering in 1st year are required to obtain certification of satisfactory completion of (a) a Canadian Red Cross Society or St. John Ambulance course in First Aid (or its equivalent) and (b) a CPR Basic Rescuer course before they may register in first year of the D.D.S. program. The CPR course must have been completed within the past two years. All students must present evidence of recertification in the CPR Basic Rescuer course by the last day of classes in 4th year. Certificates verifying completion of such courses must be submitted to the Student Services Office by the last day of classes in the 4th year of the program. The Faculty of Dentistry does not offer instruction in these courses as part of the D.D.S. program.

4. Courses

Students will take all courses and examinations of the program at the times set by the Faculty and under the direction of the Faculty staff. Credit for courses taken elsewhere will only be given as explained in the section entitled Exemptions.

The courses of the curriculum are divided into two categories—didactic and clinical. Didactic includes all lectures and some laboratories and preclinical courses. Clinical comprises the preclinical laboratory courses of First and Second Years (Restorative Dentistry, Biomaterials, Orthodontics, Pediatric Dentistry and Prosthodontics) and all clinical work in Third and Fourth Years.

All courses involving technical procedures must be completed in the Faculty laboratories under the direction of the staff in accordance with the regulations laid down by the programs concerned.

5. The University of Toronto Interprofessional Education (IPE) Curriculum/ Program

Interprofessional Education (IPE) occurs when students from two or more professions learn about, from and each other to enable effective collaboration and improve health outcomes. Dental students interact with ten other health professional programs (medical radiation sciences, medicine, nursing, occupational therapy, pharmacy, physician's assistants, kinesiology and physical education, physical therapy, social work and speech-language pathology) in mandatory and elective activities focused on

the development of specific values and core competencies. The knowledge, skills, behaviours and attitudes developed through the IPE curriculum/program will enable students to provide collaborative patient/client-centered care in an interprofessional context.

The learning activities are:

- 1) Teamwork: Your Future in Healthcare
- 2) Digital Professionalism: Social Media in Healthcare
- 3) Roles of Health Professions
- 4) Conflict in Interprofessional Life
- 5) Case-Based: Pain Curriculum
- 6) IPE Component in a Clinical Placement
- 7) 2 electives of the student's choice

Completion of all 7 of the activities above is mandatory to graduate from the DDS program.

Dentistry

Successful completion of two elective learning activities is required across the four year program.

6. Attendance and Absences

The Faculty of Dentistry monitors all absences from the Faculty. It is expected that all students will be in attendance during the entire academic school year. Attendance at lectures, clinics and laboratories may be considered by program or course directors in the evaluation of a student's performance. All absences must be reported promptly to the Student Services Office. Students must not permit appointments with patients to conflict with lectures, laboratory classes or demonstration clinics.

All clinical absences must normally be made up. However, for those students who have sessions to make up it is important to note that due to the limited number of chairs available in the Clinics, preference will be given to those students completing assignments and core competencies. For significant absences from the Faculty it may not be possible to make up missed sessions within the same academic year. In order to obtain standing in a preclinical or clinical course a student must have attended a minimum of 95% of the scheduled sessions in each academic year.

Medical absences:

- All medical absences to be reported to Student Services.
- Absences of three or more consecutive days require completion of a [Verification of Illness document](#) which can be picked up at the Student Services Office and must be completed by the student's physician and returned to the Student Services Office along with a petition.

Planned absences:

- All planned absences to be reported to Student Services.
- Any planned extended absence involving a missed scheduled term test, or of three or more consecutive days, must be requested in writing through a [petition](#) at least two weeks in advance of the scheduled absence.

Residency interviews:

- All planned absences to be reported to Student Services.
- Any planned absence of three or more consecutive days must be requested in writing, normally at least two weeks in advance of the scheduled absence and include where and when the interview is to take place.
- Requests to be submitted to the Student Services Office for approval by the Undergraduate Petitions Committee.
- Residency interviews cannot conflict with scheduled term tests.
- If the request for Faculty absence (planned or residency) is denied, it is important to note that if a student is then absent, 5% per unapproved absence per pre-clinical/clinical half-day assignment will be deducted from the student's final grade and students will be required to make up all missed half-day assignments.

If the request for Faculty absence (planned or residency) is denied, it is important to note that if a student is then absent, 5% per unapproved absence per preclinical/clinical half-day assignment will be deducted from the student's final grade and students will be required to make up all missed half-day assignments.

7. Suspension

A student whose work or conduct is judged by Undergraduate Academic Standing Committee to be unsatisfactory may be suspended for a period not exceeding two years, or may be refused further registration in the Faculty.

8. Private Practice External to the Faculty or Clinics Associated with the Faculty

No student shall, while registered in the Faculty of Dentistry and associated with a program of study or enrolled in a course therein, engage in the practice of dentistry or provide dental treatment (whether or not for financial or other remuneration) except in clinics supervised by the Faculty or with the prior permission of the Faculty.

9. Exemptions

To avoid repetition in courses that students have completed satisfactorily before entering the Faculty, an exemption policy has been developed. When an exemption in a course is granted, the student is not required to attend any part of the course and the student does not receive a grade in the course. Rather, the academic record shows XMP in that course.

Students are permitted multiple exemptions. To be eligible for exemption, the course(s) previously taken (i.e., before first registration in the Faculty) must have been completed (a) with at least a grade of A and (b) within four years of the date of the request for exemption. Partial exemption is not granted in any course.

Requests for exemption from First Year courses will be initiated by students at the time they are admitted and should be sent to the Student Services Office. For courses in higher years, requests should be submitted to the Student Services Office at the time of registration. All requests must be submitted by the first Friday of the Fall Term. Requests will be reviewed in accordance with the above Faculty guidelines in consultation with the departments concerned. Students will be notified of the results of their requests as soon as possible. Until they are officially notified by the Faculty Registrar, students should attend all the meetings of the course(s) concerned.

10. Standing

In order to obtain final standing in a course, a student must receive at least a 60% in that course. Final standing in a course is obtained following final examination and the satisfactory completion of all clinical assignments.

Students who miss a final examination due to documented illness or other special circumstance, or who fail an examination due to illness or other circumstances during the examination, may petition to (1) receive aggregate standing or (2) write the examination during the supplemental examination period.

11. Aggregate Standing

Aggregate standing is seldom granted and no student may receive aggregate standing on more than one occasion. Aggregate standing is never granted in the final year.

12. Supplemental Examinations

Students who fail a course have the privilege of a supplemental examination, with the exception of the clinical courses. A supplemental examination is defined as a special examination for students who have failed a course, and is graded "Pass" or "Fail".

Students are permitted no more than two supplemental examinations in the International Dentist Advanced Placement program.

13. Consequences of Failure to Obtain Standing

Academic standing is assessed at the end of the academic year. A student fails to obtain academic standing by having failed more than two subjects, or by having failed a clinical course, or by having failed one or more supplemental examinations. In the event of failing to obtain academic standing, the student will be required to repeat all courses of the failed year that have a preclinical or clinical component regardless of the achievement level, as well as those courses in which the student did not receive a grade of A- or higher, before advancing to the next year or graduation.

Any student who fails to achieve academic standing on two occasions shall be refused further registration in the Faculty.

14. Consequences of Failure to Pass the Fourth Year Clinical Comprehensive Care Program Oral and/or Didactic Supplemental Examinations

For any student who fails the supplemental oral and/or written examinations for the Fourth Year

Comprehensive Care Program (courses DEN450Y and DEN451Y), a remedial course of instruction for the student will be provided with selected members of the academic staff. The student will be permitted to take another supplemental oral and/or written examination(s) when judged to be sufficiently prepared. The remedial course may include a requirement to maintain clinical proficiency, or may be as extensive as failing to achieve academic standing in fourth year and repeating the year in full.

Examinations

15. Term Tests

Term tests may be held in any course at the discretion of the instructor or by order of Faculty Council, and the results of such tests will be incorporated with those of the final examinations. The relative weight of tests in each course is published in the "Methods of Course Evaluation" distributed to students at registration.

Students who are absent from term tests due to illness or other extenuating circumstances are required to submit a [Verification of Student Illness documentation](#) or other satisfactory evidence to the Faculty Registrar, along with a [petition](#). The Petitions Committee will inform the student concerning the action that will be taken with respect to the missed term test or extenuating circumstances and the course director will facilitate the terms.

In courses where no final examination is scheduled, or which extend longer than one academic year, the course director concerned may require students who have not performed satisfactorily in their term work, which may include tests, to pass a special examination. This special examination will be considered as a final examination for the purposes of obtaining standing and will carry supplemental privileges.

Specific courses will utilize digital assessments through the Exemplify software. It is imperative students download Exemplify to gain access to their examinations on the day of assessment. Students will be given advanced notice of which term tests will be using digital examinations.

Test and Mid Term Reviews

If students have questions about their tests or midterms they may reach out to their course director. However, students must also understand that any paper reviewed by a Course Director may result in an overall grade amendment, and as such, they must accept the fact that any recheck or re-reading may lead to a lowering of the mark, or to a raising of the mark, or no change.

16. Eligibility for Final Examinations

A student whose term work in a course is unsatisfactory may be prevented by Undergraduate Academic Standing Committee from writing the final examination in that course. Similarly, any fourth year student who fails to meet the minimum clinical requirements and/or fails the clinical competency tests for any Clinical Comprehensive Care Program clinical discipline, may be prevented by Undergraduate Academic Standing Committee from taking the Clinical Comprehensive Care Program Final Oral and/or written examination until the minimum clinical requirements and competencies have been met to a satisfactory standard.

17. Final Examinations

All examinations conducted formally under divisional auspices will have a presiding officer for the conduct of the examination and has authority over all invigilators.

When the evaluation of the student's performance in a course includes a final examination, that examination will be worth at least one-third of the final grade. Students can ascertain which courses require final examinations by consulting the "Methods of Course Evaluation", distributed at registration.

In addition to single course examinations (which may be held separately or together with other courses as "composite" examinations, with each course marked separately), the Faculty may also conduct "comprehensive" examinations where a paper is set and marked in a combination of two or more courses and a single grade is given. A comprehensive examination counts as a single course so far as failures are concerned.

Any illegible examination paper will receive a failing grade.

18. Missed Examinations

Any student absent from a final or supplemental examination for reasons beyond his or her control, may petition for consideration by the Faculty. Such a petition must be filed with the Faculty Registrar on or before the last day of the relevant examination period, together with a medical certificate (see #6 in this section) and/or any other relevant documentary evidence as appropriate. If a final or supplemental examination is missed, it must be written as soon as possible after the regularly scheduled examination period or supplemental examination period, as the case may be. Only under unusual circumstances will petitions to write examinations outside designated final or supplemental examination periods be accepted. If such a petition is denied or if a student misses a final or supplemental examination and does not petition for consideration within the stated time, the student will be recorded as having failed the course, although in the case of a final (i.e. not a supplemental) examination, supplemental privileges will be retained.

19. Supplemental Examinations

Students required to write supplemental examinations or to take supplemental evaluations must do so at the appointed time, unless the Undergraduate Academic Standing Committee has granted prior permission for alternative arrangements.

Candidates are required to complete the application form, and submit the appropriate fee to the Student Services Office by the deadline date. Council reserves the right to reject applications of those failing to comply with these requirements.

Supplemental examinations and evaluations are held at the Faculty. In special circumstances the Faculty will, upon written request, endeavor to arrange for supplemental examinations for a First, Second or Third Year student to be written at another university. Students wishing to take advantage of this must undertake to defray the extra expense involved and, to allow time for the arrangements to be made, must present their written requests to the Faculty Registrar at least five weeks before such examinations.

20. Student Access to Examination Papers

After the issue of final grades and within six months of the final examination period, students may request from the Student Services Office photocopies of their final examination answer papers for a fee

of \$13 per paper. If, upon inspection of this, students wish to have the paper re-read, they must set down the reasons in detail and petition through the Faculty Registrar within six months after the final examination period.

A \$36 fee is charged to submit a petition to reread an examination. Such a petition will be granted only when it contains specific instances of disagreement with the existing grading and an indication of the academic grounds for such disagreement. Only if the revised mark is higher than the original mark as a result of this petition, the \$36 fee will be refunded. Students should note that when an examination is failed, it is re-read before the marks are reported. Instructors shall not subsequently re-read any final examination except on the authority of a petition. Students must also accept the fact that any recheck or re-reading may lead to a lowering of the mark, or to a raising of the mark, or no change.

21. Evaluation

The Faculty of Dentistry adheres to the University Assessment and Grading Practices Policy. The substance of this policy as it relates to the Faculty of Dentistry is outlined in the sections below, and is followed by reference to the policy website in Section 8.

22. Methods of Evaluation

Student performance in any course will normally be assessed by means of more than one evaluation element, and no one element will have inordinate value in the assessment. As per the University's Governing Council, criteria for exemption from this rule may be determined by the division/faculty.

The names of the courses in which standing must be obtained, the methods by which they will be evaluated and the relative weight of these methods will be made available to students at the beginning of each academic year in the document entitled "Methods of Course Evaluation".

After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of a simple majority of the students enrolled in the course.

23. Preclinical Evaluation

Students must be judged by the discipline to be competent in the preclinical component of the discipline's program before being permitted to proceed to patient care in that program.

24. Clinical Evaluation

Evaluations of the clinical work of students are made by clinical staff of the Faculty. Grades in clinical courses may be partly derived (a) from the day-to-day performance values obtained in each clinical program and (b) from the written assessments of the staff. Overall clinical performance is monitored throughout Third and Fourth Year and students will be notified if their performance is inadequate. If at any point during the year, the clinical work of a Third or Fourth Year student is judged by a course director to be unsatisfactory, that student may be temporarily suspended from treating patients and given remedial preclinical work until he or she has regained the standard of clinical skills necessary for the treatment of patients. Failure to improve performance to a satisfactory level by the date specified by the course director will prevent a student from being promoted to Fourth Year or from graduating.

25. Grading

The following grading scale is normally used in the D.D.S. program.

Didactic, Preclinical and Clinical Courses

Percentage	Letter Grade	Grade Point Value	Grade Definition
90-100	A+	4.0	Excellent
85-89	A	4.0	Excellent
80-84	A-	3.7	Excellent
77-79	B+	3.3	Good
73-76	B	3.0	Good
70-72	B-	2.7	Good
67-69	C+	2.3	Adequate
63-66	C	2.0	Adequate
60-62	C-	1.7	Adequate
0-59	F	0.0	Failure
60-100	P	0.0	Pass*
0-59	FL	0.0	Failure*

* of a supplemental exam

Designators and other non-grade symbols, which may be used in reporting course results, are shown below.

CR/NCR = Credit, No Credit. CR or NCR is assigned to a few courses. The grades CR and NCR have no numerical equivalence and are not included in the calculation of Session Averages.

XMP = Exempt. XMP is assigned by a divisional committee upon approval of a student's request for exemption. It carries credit for the course but is not considered for averaging purposes.

NGA = No Grade Available. NGA is assigned by the division in the extraordinary case that a grade is not available for one of its students enrolled in a course. It must be replaced by a regular grade assigned by the instructor or by another symbol assigned during the divisional review. It carries no credit for the course and is not considered for averaging purposes.

INC = Incomplete. INC is assigned by the instructor or divisional committee, normally as a final report, where course work is not completed but where there are no grounds for assigning a failing grade. It carries no credit for the course and is not considered for averaging purposes.

WDR = Withdrawn without academic penalty. WDR is assigned by the divisional review committee upon approval of a student's petition for late withdrawal from a course. It carries no credit for the course and is not considered for averaging purposes.

At the end of each term, the grades received for that term can be retrieved by the student from R.O.S.I. (Repository of Student Information) on the University of Toronto's website.

26. Grade Point Average

The Grade Point Average is the weighted sum of the grade points earned (weighted by the credits assigned to each course), divided by the total number of credits for the courses in which grade points were earned. Courses with a grade of CR, NCR, XMP, NGA, INC, WDR, P and FL will not be included in determining the average; i.e., the result of a supplemental examination will not be included in determining the GPA but the original failing grade will be. The Sessional GPA is based on the courses taken in a single session while the cumulative GPA takes into account all courses taken for degree credit in the Faculty.

27. Graduating with Honours

Honours standing will be awarded to students with a final cumulative grade point average of 3.5 or greater.

28. Liability of the University

The University will not be responsible for, and the student will indemnify the University and the Faculty against claims for any losses or damages resulting from the provision of dental care or treatment by a student which has not been authorized and supervised by the Faculty.

Registration Certificate for Dental Practice

A degree in Dentistry does not, in itself, confer the right to practice dentistry in any part of Canada. To acquire this right a university graduate in dentistry must hold the certificate of the dental regulatory body of the province in which he or she elects to engage in practice. Each provincial regulatory body determines what the matriculation and professional requirements shall be and when registration is to be effected.

In each of the provinces of Canada, the Legislature has enacted laws regulating the practice of dentistry, and in each province the dental act provides for a corporate body, which grants certificates of registration/licenses to practice dentistry within that province.

Certificate of Registration to practice in Ontario

A candidate desiring to practice dentistry in Ontario should consult the Registrar, Royal College of Dental Surgeons of Ontario, 6 Crescent Road, Fifth Floor, Toronto, Ontario M4W 1T1 (416) 961-6555.

License to practice in other provinces of Canada

A candidate who desires to acquire the right to practice in Canada elsewhere than in the province of Ontario should obtain information regarding the requirements for practice in the province concerned. A list of the officials follows:

Alberta: Registrar, Alberta Dental Association, 8230-105th Street, Suite 101, Edmonton, Alta., T6E 5H9, (780) 432-1012

British Columbia: Registrar, College of Dental Surgeons of British Columbia, 1765 West 8th Avenue, Suite 500, Vancouver, B.C., V6J 5C6, (604) 736-3621

Manitoba: Registrar, Manitoba Dental Association, 698 Corydon Avenue, Suite 103, Winnipeg, Manitoba, R3M 0X9, (204) 988-5300

New Brunswick: Registrar, New Brunswick Dental Society, 520 rue King Street, Carleton Place #820, P. O. Box 488, Station "A", Fredericton, N. B. E3B 4Z9, (506) 452-8575

Newfoundland: Registrar, Newfoundland Dental Board, 6th Floor, The Fortis Building, 139 Water Street, St John's, Nfld., A1C 1B2, (709) 579-2391

Nova Scotia: Registrar, Provincial Dental Board of Nova Scotia, Ste 102, 1559 Brunswick St., Halifax, Nova Scotia, B3J 2G1, (902) 420-0083

Nunavut: Registrar, P.O. Box 390, Kugluktuk, NU X0B 0E0, Tel: (867) 982-7668.

Prince Edward Island: Registrar, Dental Council of P.E.I., 184 Belvedere Avenue, Charlottetown, P.E.I., CIA 2Z1, (902) 628-8088

Quebec: Directeur general et Secretaire, Ordre des dentistes du Quebec, 625, Boulevard Rene Levesque Ouest, 15e Etage, Montreal, Quebec H3B 1R2, (514) 875-8511

Saskatchewan: Registrar, College of Dental Surgeons of Saskatchewan, 728 Spadina Cres. East, Suite 202, Saskatoon, Saskatchewan, S7K 4H7, (306) 244-5072

North West Territories: Registrar, Professional Licensing, Government of the North West Territories, Health and Social Services, 8th Floor, Centre Square Tower, P.O. Box 1320, Yellowknife, N.W.T., X1A 2L9, (867) 920-8058

Yukon: Manager of Consumer Services, Consumer and Commercial Services, Department of Justice, P.O. Box 2703, J-6, Whitehorse, Yukon, Y1A 2C6, (867) 667-5111.

License to practice elsewhere than Canada

A candidate who desires to acquire the right to practice elsewhere than Canada should obtain information regarding the requirements for practice from the dental authorities in the country in which he or she wishes to practice.

The National Dental Examining Board of Canada

Current undergraduates of the Faculty are entitled to receive the Board's Certificate provided they have successfully completed the written examination and the Objective Structured Clinical Examination (OSCE). An application, together with the prescribed fee, must be submitted by the application deadline. Information and application forms will be provided to Fourth Year students during the Fall session.

Further information may be obtained by writing to the Registrar of the NDEB at 80 Elgin Street, 2nd Floor, Ottawa, ON K1P 4R2, (613) 236-5912.

CURRICULUM 2019-2020

FIRST YEAR							
Course No.	Course Title	Lecture hours	Seminar hours	Laboratory hours	Clinic hours	Total hours	Course weight
DEN103Y1	Dental Public Health I	28	0	0	0	28	0.25
DEN106Y1	Gross Anatomy	71	0	114	0	185	1.25
DEN109H1	Histology	41	0	24	0	65	0.5
DEN113Y1	Preventive Dentistry	37.5	0	0	0	37.5	0.25
DEN118H1	Dental Anatomy and Occlusion	30.5	0	60.5	0	91	0.5
DEN121H1	Biological Basis of Oral Health/Disease	26	0	0	0	26	0.25
DEN124H1	Microbiology	36	0	0	0	36	0.5
DEN130H1	Restorative Dentistry (Didactic)	56	0	0	0	56	0.5
DEN150Y1	Biomaterials Science	26	0	82	0	108	0.75
DEN177H1	Prosthodontics	15	0	49	0	64	0.5
DEN180H1	Restorative Dentistry (Preclinical)	0	0	79.5	0	79.5	0.5
DEN199Y1	CCP1- Intro to Comprehensive Care Program	46.5	0	0	58	104.5	Pass/Fail
	Total	413.5	0	409	58	880.5	5.75

SECOND YEAR							
Course No.	Course Title	Lecture hours	Seminar hours	Laboratory hours	Clinic hours	Total hours	Course weight
DEN200H1	Anaesthesia	14	0	0	6	20	0.25
DEN202H1	Communication Skills	0	6	0	0	6	Pass/Fail
DEN203H1	Basic Disease Mechanisms	23	11	0	0	34	0.25
DEN207H1	Dental Public Health II	25	15	0	0	40	0.25
DEN208H1	Endodontics	30.5	0	54	0	84.5	0.5
DEN211Y1	Periodontics	30	0	0	0	30	0.25
DEN212Y1	Pharmacology	44	42	0	0	86	0.75
DEN215H1	Preventive Dentistry & Clinical Nutrition	21	11	0	0	32	0.25
DEN217Y1	Oral and Maxillofacial	14	2	0	5	21	0.25
DEN218Y1	Restorative Dentistry (Didactic)	64	0	0	0	64	0.75
DEN219H1	Medicine and Pathology	18	9	0	0	27	0.25
DEN222H1	Orthodontics	16	28	0	0	44	0.25
DEN223H1	Pediatric Dentistry	14	0	19.5	0	33.5	0.25
DEN249H1	Ethics, Professionalism, Law I*	1.5	10	0	0	11.5	Pass/Fail
DEN277Y1	Prosthodontics	34	0	116	0	150	1
DEN280Y1	Restorative Dentistry (Clinical)	0	0	168.5	0	168.5	0.75
DEN299Y1	CCP2 – Prev. & Perio. Services	40	0	0	96	136	Pass/Fail
	Total	389	134	358	107	988	6

THIRD YEAR							
Course No.	Course Title	Lecture hours	Seminar hours	Laboratory hours	Clinic hours	Total hours	Course weight
DEN301H1	Anaesthesia	14	0	0	3	17	0.25
DEN303H1	Endodontics	14	0	0	0	14	0.25
DEN308Y1	Dental Public Health III	18	0	0	0	18	0.25
DEN315Y1	Oral Medicine and Pathology	54	28	0	0	82	0.75
DEN317Y1	Oral and Maxillofacial Radiology	14	0	0	39	53	0.5
DEN318Y1	Oral and Maxillofacial Surgery	33	2.5	0	15	50.5	0.5
DEN322Y1	Orthodontics (Didactic)	28.5	0	0	0	28.5	0.25
DEN323Y1	Pediatric Dentistry (Didactic)	24	0	0	0	24	0.25
DEN324H1	Periodontics (Didactic)	13	0	0	0	13	0.25
DEN327H1	Pharmacology	21	0	0	0	21	0.25
DEN333Y1	Prosthodontics (Didactic)	28.5	18	0	0	46.5	0.25
DEN336Y1	Restorative Dentistry (Didactic)	11.5	0	0	0	11.5	0.25
DEN349H1	Ethics, Professionalism, Law II*	1.5	10	0	0	11.5	Pass/Fail
DEN350Y1	CCP3- Intro to Treatment Planning	16.5	0	0	270	286.5	Pass/Fail
DEN356Y1	Oral Diagnosis and Oral Medicine	17.5	15.5	0	45	78	1
DEN365Y1	Orthodontics (Clinical)	0	0	0	30	30	0.25
DEN368Y1	Pediatric Dentistry (Clinical)	0	0	0	36	36	****
DEN371Y1	Periodontics (Clinical)	0	2	0	**	**	0.75
DEN374Y1	Preventive Dentistry	10	10	0	**	**	0.25
DEN377Y1	Prosthodontics (Clinical)	0	0	0	**	**	****
DEN380Y1	Restorative Dentistry (Clinical)***	0	0	12	***	***	0.75
DEN409Y1	Practice Administration	40.5	0	0	0	40.5	****
	Total	359.5	86	12	438	895.5	7

* On-line seminars

**Clinic hours occur within CCP3 Clinic hours

**R1-R4 sessions included under Lab hrs

****No final grade reported in DDS3

The Third Year class follows the usual academic year until the end of classes in early April for Third Year. The class then continues for the final examinations and for work in the clinics with the year ending in late July.

MAY-JULY PERIOD							
Course No.	Course Title	Lecture hours	Seminar hours	Laboratory hours	Clinic hours	Total hours	Course weight
DEN409Y1	Practice Administration	5.5	0	0	0	5.5	*
DEN450Y1	CCP4 - Comprehensive Care (Clinical)	0	0	0	171	171	*
DEN451Y1	CCP IV - Comprehensive Care (didactic)	0	3	0	0	3	*
DEN456Y1	Oral Diagnosis and Oral Medicine	1	0	0	33	34	*

DEN459Y1	Oral and Maxillofacial Radiology	0	0	0	9	9	*
DEN462Y1	Oral and Maxillofacial Surgery	0	0	0	9	9	*
DEN465Y1	Orthodontics	0	0	0	9	9	*
DEN468Y1	Pediatric Dentistry	0	0	0	13.5	13.5	*
DEN490Y1	Community Based Service Learning**	7	0	0	***	7	*
	Total	13.5	3	0	244.5	267	*

*May-July hours contribute to DDS4 course weights

**Psychiatry and Dentistry lectures

***Hospital rotations occur within CCP4 Clinic hours

FOURTH YEAR							
Course No.	Course Title	Lecture hours	Seminar hours	Laboratory hours	Clinic hours	Total hours	Course weight
DEN400H1	Anaesthesia	0	0	0	6	6	Pass/Fail
DEN409Y1	Practice Administration	25.5	0	0	0	25.5	0.25
DEN410H1	Orofacial Pain: Mechanisms, Diagnosis, Management*	27.75	0	0	0	27.75	Pass/Fail
DEN411Y1	Clinical Application of Practice Administration	0	0	0	**	0	Pass/Fail
DEN449H1	Ethics, Professionalism, Law III	9	3	0	0	12	Pass/Fail
DEN450Y1	CCP4 - Comprehensive Care (Clinical)	0	0	0	402	402	1.75
DEN451Y1	CCP4 - Comprehensive Care (didactic)	10	15	0	0	25	0.25
DEN453Y1	Endodontics	12	0	0	**	**	1
DEN456Y1	Oral Diagnosis & Oral Medicine	1.5	0	0	82.5	84	1
DEN459Y1	Oral and Maxillofacial Radiology	0	2	0	18	20	0.25
DEN462Y1	Oral & Maxillofacial Surgery	14	0	0	63	77	0.75
DEN465Y1	Orthodontics	13	9	15	15	52	0.5
DEN468Y1	Pediatric Dentistry	0	0	0	42	42	0.75
DEN471Y1	Periodontics	0	0	0	**	**	0.75
DEN474Y1	Preventive Dentistry	0	0	0	**	**	0.25
DEN477Y1	Prosthodontics	14	0	0	**	**	1
DEN480Y1	Restorative Dentistry	9	0	0	**	**	0.75
DEN490Y1	Community Based Service Learning	6	0	0	**	**	Pass/Fail
DEN491Y1	Dental Outreach Community Services	0	0	0	0	0	Pass/Fail
DEN492Y1	Dental Outreach Global Services	0	0	0	0	0	Pass/Fail
	Total	141.75	29	15	628.5	814.25	9.25

* On-line seminars

**Clinic hours occur within CCP3 Clinic hours

Course Descriptions: Doctor of Dental Surgery

First Year

In the first year the student is taught many of the basic science courses which are the foundation for clinical dentistry. In these courses every opportunity is taken to introduce dentally relevant material. At the same time the student is introduced to some of the broader concepts of the practice of dentistry. An important aspect of this first year is the student's introduction to dental materials and the technical aspects of restorative dentistry. In these courses particular attention is paid to evaluating digital skills so that students with potential problems in this area can be identified.

DEN103Y1 Dental Public Health I

The first year curriculum in Dental Public Health I consists of four modules. The modules are designed to provide the context and scientific support for an evidence-based approach to improving individual and population oral health.

MODULE I: EPIDEMIOLOGICAL METHODS

This module provides students with an understanding of the scientific methods in the study of health and disease. Students will learn: the epidemiological approach and logic of epidemiological enquiry; descriptive, analytic and experimental epidemiological designs and their strengths and weaknesses; measures of risk; and common flaws in epidemiological studies.

MODULE II: EPIDEMIOLOGY OF ORAL DISEASES

In this module, students will cover the epidemiology of oral diseases and conditions, including dental caries, periodontal disease, and oral cancer, including risk factors that point to individual and population level preventive strategies. Measures of oral diseases and oral health-related quality of life will also be addressed.

MODULE III: DETERMINANTS OF HEALTH AND POPULATION HEALTH STRATEGIES

This module will develop the student's understanding of current concepts of health and the significance of health outcomes in clinical practice and the broader social and environmental factors that impact on the health of individuals and populations.

MODULE IV: CURRENT ISSUES IN ORAL HEALTH CARE

Society has established health professions and systems of organizing, financing and delivering health care. This is a very dynamic environment, with issues continually arising within the profession and between society and the profession. This module explores the nature of these issues from both society's expectations and the profession's perspective.

C. QUIÑONEZ, STAFF

DEN106Y1 Gross Anatomy

This course is designed to provide an understanding of the gross structure and function of all human body systems, including neuroanatomy and systems anatomy. In addition, a comprehensive, detailed study of the head, neck and central nervous system is undertaken to provide the student with a basis upon which to build his/her clinical knowledge. Students will be required to perform a basic dissection of the thorax and a comprehensive dissection of the neck and head in order to complement and reinforce the lecture series.

J.LAPRADE, V. MENDES, STAFF

DEN109H1 Histology

The course provides an overview of the microscopic anatomy of the human body with special emphasis on the development and structure of the oral cavity and its components. There is a basic introduction to the tissue types, followed by a detailed study of the microscopic structure of the oral cavity, and individual organ systems. The main objective of the course is to examine and recognize the cells and tissues through microscopic examination, and to correlate the morphology to the function of tissues and organs. The lectures are complemented with computer-based laboratory sessions utilizing an online virtual slide box.

D. CHUGH, STAFF

DEN113Y1 Preventive Dentistry

This course introduces students to concepts related to preventive dentistry. Lectures provide introductory knowledge of dental diseases and disorders and health literacy followed by detailed information on preventive dentistry and preventive strategies that clinicians can apply to patients. Students will work in groups to plan, prepare and present a preventive oral health presentation.

M. CLARKE, STAFF

DEN118H1 Dental Anatomy and Occlusion

This course is designated to teach the students: (1) Tooth notation (2) the internal and external anatomy of the deciduous and permanent teeth, (3) the chronology of dental eruption, (4) evolution of molar tooth, (5) genetic and environmental factors that influence teeth morphology, (6) dental anatomy and restorative dentistry, (7) development and description of primary occlusion, (8) development of early adult occlusion, (9) fundamental principles of static and dynamic occlusion, and (10) malocclusion.

A. PRAKKI , G. ANDERSON, , STAFF

DEN121Y1 Biological Basis of Oral Health and Disease

This comprehensive course is designed to provide the preclinical student a broad-based understanding of the basic biological and physiological processes related to the healthy and diseased states of the oral cavity, including the dentitions.

The first set of lectures explores the physiology of oral-facial functions, particularly those associated with

pain and touch, taste, chewing, swallowing, respiration, related motor activities, oral-facial microcirculations and development of speech and language.

The second series of lectures deals with the genetics, formation, composition, metabolism, development, repair and regeneration of hard and soft tissues of the oral cavity. The physiology of saliva production, its composition and the microbial ecology of oral biofilms, as they relate to oral diseases and their prevention, are introduced. The continuum of changes from birth to senescence that occur in the oral cavity and their impact on dental treatment are presented in a series of lectures. Concepts related to the psychological importance of the oral cavity in overall health and the psycho-physiological correlates of the oral cavity are discussed.

G. KULKARNI, STAFF

DEN124H1 Microbiology

The course covers basic, pathogenic and oral microbiology and immunology and related infection control practices. Its objective is to provide the dental student with an understanding of bacterial, viral and fungal microorganisms and their interactions with the human host in health and disease. Emphasis is placed on (1) diseases with oral and facial manifestations, (2) diseases influencing the planning and performance of dental treatment for patients, and (3) diseases of major public health importance.

C. McCULLOCH, STAFF

DEN130H1/DEN180H1 Restorative Dentistry

These courses in restorative dentistry begin early in January. The course starts with an introduction to the dental caries disease, its diagnosis, classification, etiology and clinical implications. The students are also introduced to the basic principles in the treatment of dental caries by restorative means. The principles of cavity preparation are related to the physical properties of the restorative material and to the anatomy and histology of the dental tissues. The relationship between restorative procedures and prevention of further disease is stressed.

Lectures on instrumentation, cavity preparation and restoration are supplemented by group instruction in the laboratory. Practice in developing digital dexterity in cavity preparation and restoration is provided by preclinical exercises mostly on ivory teeth in a manikin head for clinical simulation.

G.M. DE SOUZA, STAFF

DEN150Y1 Biomaterials Science

The objective of this course is to provide fundamental knowledge of materials science required to understand the scientific basis for selection, preparation and use of dental materials. The lectures include knowledge from various fields such as metallurgy, engineering mechanics, ceramics, polymer science and chemical engineering. The laboratory program provides direct exposure to various classes of dental materials. In the laboratory the relationship of manipulation variables to microstructure, mechanical properties, bio-stability and clinical performance is emphasized.

B. SHOKATI, STAFF

DEN177H1 Prosthodontics

Prosthodontics is a clinical program focused on alleviating the needs of patients with acquired loss or congenital absence of oral tissues by improving function, comfort and appearance using suitable artificial substitutes made from alloplastic materials. Some of the fundamentals taught in the 1st year basic sciences courses will be reinforced by contextualizing these to particular elements of prosthodontic practice. The student will also learn how to complete a limited number of selected clinical and laboratory procedures employed when treating patients with edentate jaws using conventional or implant prostheses. Students use preclinical manikin simulation in projects to appreciate and develop their skills in edentulous and implant impressions, jaw registrations, tooth shade and mold selection, and custom tooth arrangements of a complete maxillary denture and an implant supported mandibular overdenture. The teaching format includes lectures and seminars, complemented with practical demonstrations followed by laboratory and clinical exercises.

B. SHOKATI, STAFF

DEN199Y Comprehensive Care 1 – Preclinical Skills

The Comprehensive Care Program (CCP1) is a preclinical course that provides students with an introduction to basic concepts and methodologies for clinical practice.

The course involves 3 components:

Component 1: Lectures introduce basic skills and concepts to prepare students for practical preclinical sessions.

Component 2: Clinical sessions involve practice on patient simulators and on student partners. Student operators will practice basic preclinical skills on assigned student partners. Clinical experiences include: practicing the Faculty's infection control standards, basic oral health indices, rubber cup polishing, topical fluoride and oral self-care instruction sessions. Students will practice basic record keeping and documentation using electronic technology.

Component 3: Dental assisting rotations with upper year students in various clinics provide opportunities to practice clinical protocols, assist with procedures and observe patient management and treatment skills.

M. CLARKE, J. POSLUNS, STAFF

Second Year

In Second Year the student's education in the basic sciences is completed and more emphasis occurs on the study of dental disease and its treatment. Combined teaching in the practical arts of dentistry occurs in this year.

DEN200H1 Anaesthesia

The courses in Anaesthesia run from the second through the third and fourth dental academic years. These courses cover aspects of pain control and patient management in order to provide the dental student with the knowledge and skills needed to treat the conscious patient without pain or apprehension. The objectives of the course in second year are to provide students with in-depth

pharmacologic knowledge of the local anaesthetic solutions used in dentistry, as well as the ability to administer these drugs safely and effectively. This course is roughly divided into two parts. The first part of the course discusses specific injection techniques covering all forms of intra-oral anaesthesia for dentistry in the mandibular and maxillary arches, as well as possible complications, and the required armamentarium. There is also a hands-on element where students practice injection techniques on each other in a clinical setting. The second part of the course provides an in-depth review of the pharmacology of local anaesthetics.

P. NKANSAH, STAFF

DEN202H1 Communication Skills

In addition to knowledge and technical skills, effective communication is essential to the dentist-patient relationship and quality patient care. In this course students will have the opportunity to practice their communication skills in simulated scenarios using standardized patients. Cases are designed to depict commonly encountered issues found in clinical practice. The objective is to provide dental students with experience dealing with a variety of patient situations that require effective communication skills, including the ability to clearly and concisely articulate information to patients and the use of active listening skills, to successfully gather and impart information, handle patients' emotions sensitively, and to demonstrate empathy, rapport, professionalism, and ethical awareness. This is a credit/ non-credit based course.

L. DEMPSTER, STAFF

DEN203H1 Basic Disease Mechanisms

The course instructs second year students in the general principles of pathology, emphasizing pathogenetic and morphological aspects of disease. The course serves as an introduction to general and systemic pathology, and includes an overview of the etiology, pathogenesis, clinical features, gross and microscopic pathology of major disease processes. Basic concepts that are covered include cell injury and adaptation, cell death, inflammation and repair, the immune response, hemostasis, and neoplasia. Systemic pathology, as it relates to dentistry, will also be studied, including hematopathology and diseases of the skin, bone/joint, and gastrointestinal tract.

The lectures are complemented with computer-based seminar sessions utilizing an online virtual slide box.

D. CHUGH, STAFF

DEN207H1 Dental Public Health II

This course will demonstrate the scientific basis for clinical decision-making in prognosis, causation, diagnosis and therapy following the principles of evidence-based health care. Examples from the dental literature are used to illustrate the concepts and their practical application. Besides didactic lectures, there will be several supervised small group tutorial sessions through which, the students will further develop evidence-based thinking and critical analysis of the literature. The specific objectives of the course are: 1) to introduce principles of epidemiology as applied to clinical research; 2) to provide the students with the fundamental scientific skills in clinical epidemiology to enable them to practice evidence-based dental care; 3) to provide the students with skills in answering questions using biomedical literature; 4) to provide students with the skills needed to critically appraise a biomedical

research article.

A. AZARPAZHOOH, STAFF

DEN208H1 Endodontics

This course offers the student didactic and preclinical experiences designed to establish the student's basic knowledge of the nature, the diagnosis and the treatment of pulpal and periapical disease. The didactic and preclinical courses are given during the winter and spring terms.

The didactic component commences with an overview of the endodontic disease and associated therapies. Later it provides more comprehensive review of the Pulpal and periapical physiology, pathology and diagnosis of healthy and diseased endodontium. A portion of the course is dedicated to the understanding, prevention and treatment of the Endodontic emergencies and Traumatic injuries of the teeth. The preclinical component is mostly directed towards preparing the student to perform basic clinical endodontic procedures prior to entering the clinics in third year.

P.CHERKAS, STAFF

DEN211Y1 Periodontics

The principal objective of the full program in periodontics is to educate and prepare general practitioners of dentistry to serve the universal public need of prevention, recognition and comprehensive diagnosis and treatment of periodontal diseases. In conjunction with Comprehensive Care Program II – Preventive and Periodontal Services (DEN299Y), this course commences in-depth education in periodontics, building on the conceptual foundations established in the first year programs in basic sciences, dental public health and preventive dentistry. The program integrates didactic, preclinical and clinical elements aiming to achieve detailed understanding of the pathogenesis, diagnosis, and approaches to therapy for the more common types of periodontal conditions. The didactic element centers on periodontal pathology, etiology, classification of periodontal diseases, fundamentals of clinical decision-making, and treatment of inflammation.

J. LAI, STAFF

DEN212Y1 Pharmacology

The objective of this course is to provide students with an integrated knowledge of the mechanism of action of drugs based on the understanding of systems physiology, pathology and relevance to clinical practice. Upon completion of the course the students should have an understanding of general principles as well as the pharmacology and therapeutics of all categories of drugs. There is a greater emphasis on agents commonly used in dentistry. The major topics covered include principles of pharmacokinetics (i.e., what the body does to drugs), and pharmacodynamics (i.e., mechanisms of drug action), autonomic, analgesics, anti-infectives, general anaesthetics, respiratory, cardiovascular, gastrointestinal, antineoplastics and oral cancer, anticoagulants, endocrine and central nervous systems, among others. Clinically relevant case studies are included and students work in small groups. This course provides the basis for the third year pharmacology course which focuses on therapeutics of direct importance to dental management.

J. LANÇA, STAFF

DEN215H1 Preventive Dentistry

This course is designed in a lecture and seminar format to provide the understanding of the concepts of preventive dentistry focusing on the prevention of oral diseases. This course will provide strategies to identify those at risk and to discuss treatment options available to reduce the risk of dental disease throughout life. Students will be able to introduce therapies that are known to reduce the risk and prevent dental caries, periodontal disease or oral cancer. Also, practical application of healthy eating principles with an emphasis on prevention of dental disease will be reviewed. We will also discuss preventative care for the medically compromised and geriatric patients.

A. OUANOUNOU, STAFF

DEN217Y1 Oral and Maxillofacial Radiology

Lectures and seminars introduce the student to the principles of radiation physics and hygiene, biology, radiographic imaging modalities, technique and the interpretation of normal anatomy and its variations, including common diseases affecting the teeth and jaws. Clinical sessions provide students with the opportunity to learn and practice intra-oral imaging techniques incorporating infection control protocol, utilizing the two digital imaging systems (CMOS and PSP receptors). Radiographic interpretation is introduced reinforcing lecture material.

M. CASH, STAFF

DEN218Y1/280Y1 Restorative Dentistry

The objective of this course is to prepare students for clinical practice in third and fourth years. Students are taught the principles, which govern the need for initial and retreatment restorative therapy, the criteria for long-term clinical acceptability and the reasons for restorative failure. The principles and methods for restoring teeth to structural, functional and aesthetic acceptability are presented in lectures and laboratory demonstrations.

The course is divided into three modules. The fall term is devoted to cariology and direct restorative therapy. The cariology section features treatment of simulated carious lesions on ivory teeth and actual caries on extracted teeth. Emphasis is given to the diagnosis of initial and recurrent caries, provision of conservative restorative therapy and the decision making process related to replacement therapy. The winter term involves preparations for laboratory-fabricated for extra coronal restorations. CAD-CAM technology for fabrication of extracoronary restorations is introduced at this level. The spring term has two components: the esthetic module and the restoration of the endodontically treated tooth. All pre-clinical treatment sessions utilize ivory and natural tooth typodonts in phantom heads specially designed to simulate the clinical condition. Upon completion of the course students should possess the appropriate theoretical and practical knowledge and have developed the manual expertise to provide patients with the majority of single tooth restorative services required in modern dental practice.

W. EL-BADRAWY, STAFF

DEN219H1 Medicine and Pathology

The course is designed to provide basic knowledge of common medical conditions, reviewing the etiology, pathogenesis, pathologic and clinical features of each condition. The purpose of the course is to understand the pathologic basis of the medical condition, how it may impact the patient's health, how the illness presents clinically at the bedside, and to develop an approach to treating patients with chronic medical conditions. The relevance of these conditions on the practice of dentistry is emphasized throughout the course. The course builds upon content learned in Basic Disease Mechanisms and Pharmacology, but provides a more clinical perspective. The lectures are complemented with three problem-based learning seminars revolving around real-life scenarios that may be seen in dental practice.

D. CHUGH, N. MARCHESE, STAFF

DEN222H1 Orthodontics

This orthodontic course comprises lectures, preclinical seminars, and diagnostic case analyses. The objective is to teach students to recognize and diagnose the various forms of malocclusion, and understand the etiologic factors associated with the genesis of orthodontic abnormalities. Cephalometric and model analyses are studied as the basis for providing knowledge of normal and abnormal facial development. Students participate in lectures, case analysis seminars and preclinical diagnostic exercises designed to prepare them for future clinical practice. Student progress and performance are evaluated through cephalometric and model analysis competency tests, a term test, case analysis and presentation of assigned sets of diagnostic records and a final examination.

S. SURI, STAFF

DEN223H1 Pediatric Dentistry

Pediatric Dentistry commences in second year and continues throughout third and fourth years. The didactic and clinical program develops the concept that Pediatric Dentistry is concerned with total dental care of the child and adolescent during growth and development from birth to adolescence. The management, prevention and treatment of dental conditions in children are emphasized during clinical sessions. Second Year: The restorative component is introduced at the preclinical level in conjunction with the Department of Restorative Dentistry. These procedures are supplemented by lectures, seminars and videotape demonstrations.

P. ANDREWS, STAFF

DEN249H1 Ethics, Professionalism, Law I

Ethics is critical to being a professional and a working knowledge of the legislation that impacts on practicing dentists is important. To assist students in their understanding of this important topic, an online self-study course was developed by the Royal College of Dental Surgeons of Ontario in conjunction with the Faculty of Dentistry. The course is made up of four (4) modules comprising the reading of selected articles / other publications / papers which will either be posted online or their link provided and the consideration of a number of ethical, legal and professional considerations for each module. Students are divided into small groups and work through the various modules and complete the case study assignment for each under the guidance of a group facilitator and in conjunction with input and on-line interaction with their small discussion group.

I. FEFERGRAD, STAFF

DEN277Y1 Prosthodontics

The learning objectives of this course are to apply mechanical and biological principles in prosthesis treatment planning and design to improve or restore the form and function in partially edentulous situations. The student will learn how to complete a limited number of selected clinical and laboratory phases of removable and fixed partial dentures (RPD and FPD, respectively), including conventional tooth- or implant-supported prostheses, and the procedures employed when treating partially edentate patients. The fabrication steps take place on manikins, stone models, and student partners, as appropriate. Completed projects and defined seminars allow for development and assessment of skills required for successful treatment planning. Knowledge, comprehension, analysis, synthesis, and evaluation are assessed with projects and term tests as well as competency tests for both RPDs and FPDs. The teaching format includes lectures and group seminars, complemented with practical demonstrations followed by laboratory and clinical exercises.

E. SOMOGYI-GANSS, STAFF

DEN299Y1 Comprehensive Care Program II – Preventive and Periodontal Services

The objectives of this course are to build on the knowledge and skills acquired in DEN199Y and to provide clinical experience in the management and control of inflammatory periodontal conditions of patients. Education about comprehensive care is focused on practical sessions that include assisting 4th year undergraduate dental students during their CCP clinical treatment assignments. These will also incorporate one-on-one shadowing of a Treatment Coordinator, in order for the student to appreciate the process of treatment planning, associated required documentation and patient communication. Additionally, Group Case Discussion Sessions and IPAC audits of senior students will be undertaken, to evaluate the participants' understanding of the practical concepts and Infection Control Protocols learned in lectures and clinical rotations.

Development of clinical skills and knowledge about periodontal examination, patient motivation, instruction in oral hygiene, scaling, root planing and nightguard delivery and adjustment are taught in sessions during which students, under close supervision, administer maintenance care to new or previously treated general clinic patients.

The emphasis is to impress upon students the importance of periodontics within the realm of general dental care, for the long term maintenance of a healthy natural dentition. Students are expected to operate efficiently with appropriate infection control precautions.

At the completion of the year, students are expected to attain clinical competency in preventive services (oral hygiene instruction, scaling, polishing) and periodontal services (root planing).

In addition, students will become familiar with the caries risk assessment protocol, by performing a caries risk assessment on their partner.

Completion of the course will contribute to the preparation of the student for entry into the 3rd year Comprehensive Care Program for clinical treatment of patients.

R. GHILZON, D. CORNELL, STAFF

DEN356Y1 Oral Diagnosis and Oral Medicine

The course starts in the Second Year and continues through Third Year to teach students a system of diagnosis of dental and oral disease. Emphasis is placed on methods of history taking, examination, patient evaluation and management as well as treatment planning. This will include the evaluation and management of healthy patients as well as of those with a wide variety of co-existing medical disorders. Students will learn the impact of medical conditions on treatment planning and provision of dental care.

During the whole of Third Year, students will attend the Oral Diagnosis and Emergency Clinics in order to obtain practical experience in the evaluation and management of a large and varied group of patients. They will also learn how to request and evaluate medical information from their patient's physicians or hospitals. In the Faculty Emergency Clinic, the students learn to diagnose and manage a wide range of dental emergencies. The clinical sessions provide practical application of the material covered in the lecture/seminar component of the course and prepare students for the more detailed treatment planning sessions involved in the provision of comprehensive care.

K. BURGESS, R. BLACK, STAFF

Third Year

Clinical Practice

The student now embarks upon the provision of clinical care for assigned patients. Emphasis is on the comprehensive assessment and appropriate management of the oral care needs for all patients for whom the student is the primary provider. Wherever possible, new patients are assigned to students at their initial appointment in Oral Diagnosis in order to allow continuity of care from initial patient assessment to treatment completion within the Comprehensive Care Program. Students perform planned clinical procedures under the close supervision and guidance provided by program instructors. During all clinical sessions, students apply the basic principles, knowledge and skills that they have acquired in their preclinical education with the objective that by the end of the year each student is able to provide a wide range of the basic treatment services with an appropriate level of confidence.

DEN301Y1 Anaesthesia

The objective of this course is to provide an understanding of the modalities of sedation and anaesthesia and the ability to administer minimal sedation when indicated for patients in dentistry. The focus is to achieve competency in the administration of nitrous oxide:oxygen sedation. Students should also become knowledgeable in oral sedation and aim for competency in its administration for adult patients. This course will also supplement material from other courses in preparing dentists to manage medical emergencies. Students will gain experience in the clinical application of nitrous oxide:oxygen. After formal instruction is completed, students may administer nitrous oxide:oxygen or oral sedation to their own adult patients in the clinic. Students will also write anaesthesia consultations for their patients in the clinic.

D. HAAS, STAFF

DEN303H1/DEN453Y1 Endodontics

This course offers the student didactic and clinical components. The didactic component in the fall term

is designed to broaden the knowledge pertaining to endodontic disease and diagnosis. Initial clinical experience is acquired through assisting and observation assignments in the undergraduate and graduate clinics. Further clinical experience is gained through performing endodontic treatment to patients on anterior, premolar and molar teeth.

P. CHERKAS, STAFF

DEN308Y1 Dental Public Health III

Module VII: Communication in Dental Practice

This module aims to make students aware of central role played by communication in dental practice and builds on the content covered in the communication skills course in second year. The curriculum will cover: communication and its association with pain, anxiety and therapeutic outcomes; models of the dentist-patient relationship; communication in the health care team; consultation tasks and styles; common agendas and barriers in communication and challenging patient encounters.

Module VIII: Psychological and Behavioral Issues in Dental Practice

The aims of this module are to make students aware of common psychological and behavioural problems encountered in dental practice and discussion of psychological principles and strategies that can be employed to manage these problems. This module covers: understanding dental fear and anxiety, cognitive and behavioural factors associated with dental anxiety; patient beliefs and perceptions about dental anxiety; management and treatment of the dentally anxious adult and child; communicating pain in dentistry and pain in vulnerable populations.

L. DEMPSTER

DEN315Y1 Oral Medicine and Pathology

The lectures cover diseases of the teeth, periodontium, tongue, oral mucosa, salivary glands, jaws, orofacial deformities and systemic diseases as they affect the mouth and jaws. The pathology, clinical aspects, differential diagnosis and management of these conditions are discussed. In the seminar sessions, a virtual microscopy-based teaching program is used to demonstrate the histological appearances of the most significant lesions, and to correlate histologic features with clinical presentation. The seminars are organized to impart a systematic approach to evaluate oral soft and hard tissue lesions, to formulate a diagnosis and treatment plan, to apply and consolidate what has been learned in the lectures.

G. BRADLEY, K. PERSCHBACHER, STAFF

DEN317Y1 Oral and Maxillofacial Radiology

Lectures, preclinical exercises and clinical rotations introduce the student to patient-centered intra-oral and panoramic imaging techniques, and radiographic interpretation of normal anatomy and common diseases affecting the teeth and jaws.

R. BARLOW, E. LAM, STAFF

DEN318Y1 Oral and Maxillofacial Surgery

The third year Oral Surgery course consists of a didactic component a laboratory component and clinical work in the clinic.

The didactic component is made up of a series of lectures presented in four modules. They are: Principles of Surgery, Principles of Exodontia, Preprosthetic Surgery/Implantology and Infections of the Oral and Maxillofacial area. This didactic component aims at giving the students the knowledge related to the principles of Surgery in general, the instrumentation used, the surgical techniques of exodontia for both erupted and unerupted teeth and minor dentoalveolar surgery, the pre-prosthetic surgical procedures, and the management of infections.

The laboratory component is designed to give the students a more realistic feeling of the use of instruments and the handling of tissues and it consists of two exercises held during January. The first exercise presents the technical details of simple exodontia and the instruments used. The students will work in groups on performing extractions on the surgical simulator. During the second exercise the students have a hands-on experience on raising flaps, suturing, performing a surgical extraction and doing a biopsy procedure on pig mandibles. The clinical work on patients in the Oral Surgery clinic starts in late spring. The students are divided in groups and perform clinical work on patients under the supervision of the clinical instructors.

N. KATSIKERIS, STAFF

DEN322Y1 Orthodontics

The Third Year orthodontic course continues to build on concepts taught in the second year course. It consists of lectures designed to provide the student with a greater knowledge and understanding of the principles of orthodontic diagnosis and treatment planning as well as introduce the student to other aspects of orthodontics such as the biology of tooth movement, orthodontic appliances and the role of orthodontics in multi-disciplinary treatment.

In the clinical component of the course students will perform complete orthodontic examinations on potential patients for the Graduate Orthodontic Clinic, in addition they will have instruction and hands on experience in clinical photography for the orthodontic patient. Students will also have hands on experience of orthodontic treatment with a simulated typodont.

K. SHARMA, STAFF

DEN365Y1 Orthodontics

In this course students will have the opportunity to put into practice knowledge gained from previous didactic courses in orthodontics. Screening sessions will allow students to develop their skills in examination and diagnosis for orthodontic patients. Case Based learning seminars are designed to foster a more in depth discussion of orthodontic diagnosis and treatment planning. Students will also have a simulated orthodontic case and will go through all the steps involved with the treatment of a fully bonded orthodontic patient. In addition students will have instruction and hands on experience in clinical photography for the orthodontic patient.

K. SHARMA, STAFF

DEN323Y1/DEN368Y1 Pediatric Dentistry

A series of lectures and seminars are presented on dentistry for children that include behavior

management, infant care, diagnosis and treatment planning, management of early childhood caries, space management, pediatric dental emergencies and trauma, pediatric oral surgery and oral pathology, and applied pediatric medicine. The intent of the course is to provide the student with the knowledge and skills required to provide basic dental care to children in a family practice setting.

The clinical phase of Pediatric Dentistry is developed in a comprehensive manner during third year, stressing total patient care in the Children's Clinic. The students also rotate to the City of Toronto Public Dental Health Clinic, Toronto Rehabilitation Institute, and the Mt. Sinai Hospital for a portion of their clinical training. Students are required to attend all sessions to advance into 4th year, but a grade will only be given in Clinical Pedo at the end of 4th year.

P. ANDREWS, H. NAINAR, J. RUKAVINA, STAFF

DEN32H1/DEN371Y1 Periodontics

The main objective of third year Periodontics is to present a more detailed program on diagnosis, rationale, and delivery of periodontal therapy for a wide range of periodontal conditions, building on the basic knowledge and instrumentation skills learned in the first two years. The program consists of didactic, preclinical, and clinical elements. The didactic program consists of a series of lectures and seminars on periodontal therapy, including surgical therapies. These are integrated with preclinical sessions. Care of clinical patients is continued within a framework of clinical sessions under close supervision. At the completion of the year, students should possess the knowledge, motivation and clinical acuity to diagnose most periodontal conditions and to establish treatment plans for uncomplicated cases. They should have the knowledge needed to treat mild to moderate forms of periodontal diseases by combining sanative, antimicrobial and surgical modes of therapy and should be ready to enter an educational phase in which they can readily integrate their knowledge and skill in Periodontics with that learned in other programs. In addition, each student has assignments to assist in the Graduate Periodontics Clinic.

J. LAI, R. GHILZON, STAFF

DEN327H1 Pharmacology

The objective of this course is to provide applied knowledge of clinical pharmacology and therapeutics in dental practice. The topics covered include analgesics, dependency, anti-infectives, drugs used in medical emergencies and natural products. As well, the use of drugs for specific patient situations such as in the elderly, pregnancy and lactation, cardiovascular disease, and the immunocompromised, is also included.

D. HAAS, A. OUANOUNOU, STAFF

DEN333Y1/DEN377Y1 Prosthodontics

This course consists of both a didactic and a clinical component throughout 3rd year. The lectures focus on planning and integrating removable and fixed prosthodontic interventions within a continuum of comprehensive patient care. Prosthodontic treatment planning principles are underscored in lectures, winter term treatment planning seminars as well as, in patient assignments in the clinics. The clinical assignments form a part of the clinical comprehensive program that is undertaken throughout the year. The clinical instructors will ensure that the knowledge acquired in the first 3 years of studying is toward evidence-based decision making regarding prosthodontic management of patients with partial and completely edentulous jaws.

B. LEUNG, G. ANDERSON, STAFF

DEN336Y1/DEN380Y1 Restorative Dentistry

The clinical course takes place within the Comprehensive Care Program. The Fall Term provides close supervision for the transition from preclinical operative to clinical implementation of basic direct restorative procedures. The fundamental principles and methods for restoring teeth to structural, functional and esthetic acceptability, learned thus far in a preclinical setting, are emphasized as the students acquire the clinical skills necessary to treat individual patients. Patient management skills and student confidence in restorative dentistry are developed during this program. Students are evaluated on a daily basis using self-assessment and/or instructor assessment, and work towards achieving clinical competency which is evaluated in the form of (a) competency test (s). Lectures are designed to highlight clinical aspects of restorative materials and procedures. The final written examination comprehensively covers all material taught over the three years including lectures, reading assignments and the knowledge gained from clinical practice.

L. TAM, STAFF

DEN349H1 Ethics, Professionalism, Law II

Ethics is critical to being a professional and a working knowledge of the legislation that impacts on practicing dentists is important. To assist students in their understanding of this important topic, an online self-study course was developed by the Royal College of Dental Surgeons of Ontario in conjunction with the Faculty of Dentistry.

The course is made up of four (4) modules comprising the reading of selected articles / other publications / papers which will either be posted online or their link provided and the consideration of a number of ethical, legal and professional considerations for each module.

Students are divided into small groups and work through the various modules and complete the case study assignment for each under the guidance of a group facilitator and in conjunction with input and on-line interaction with their small discussion group.

I. FEFERGRAD, STAFF

DEN350Y1 – Comprehensive Care Program III - Introduction to Treatment Planning and Total Patient Care

This multidisciplinary clinical program begins in the Fall Term of third year to provide a “total patient care experience” from initial patient presentation to treatment completion for the majority of assigned patients. The third year portion of the clinical Comprehensive Care Program (CCP) introduces the student to multidisciplinary treatment planning and the concept of appropriately phased patient care. Treatment Plan Coordinators in CCP3 assist and educate students in the assessment, diagnosis and sequencing of patient care through comprehensive treatment planning sessions designed to ensure case understanding, rational treatment decisions and an appropriate treatment plan. Significant emphasis is placed in CCP3 on Phase 1 treatment planning and the importance of optimal oral disease control and patient-specific prevention. Following the development of a treatment plan, the multidisciplinary treatment needs of the patient are carried out under the supervision and teaching of clinical instructors from the periodontology, prosthodontics and restorative programs.

L. TAM, STAFF

DEN356Y1 Oral Diagnosis and Oral Medicine

The course starts in the Second Year and continues through Third Year to teach students a system of diagnosis of dental and oral disease. Emphasis is placed on methods of history taking, examination, patient evaluation and management as well as treatment planning. This will include the evaluation and management of healthy patients as well as of those with a wide variety of co-existing medical disorders. Students will learn the impact of medical conditions on treatment planning and provision of dental care.

During the whole of Third Year, students will attend the Oral Diagnosis and Emergency Clinics in order to obtain practical experience in the evaluation and management of a large and varied group of patients. They will also learn how to request and evaluate medical information from their patient's physicians or hospitals. In the Faculty Emergency Clinic, the students learn to diagnose and manage a wide range of dental emergencies. The clinical sessions provide practical application of the material covered in the lecture/seminar component of the course and prepare students for the more detailed treatment planning sessions involved in the provision of comprehensive care.

K. BURGESS, R. BLACK, STAFF

DEN374Y1 Preventive Dentistry

The didactic program concentrates on the practical aspects of incorporating preventive dentistry into private dental practice. The objective of this course is to significantly improve patient's oral health through the development of disease control programs based on disease risk determinations. We will review preventive therapies for the geriatric and medically compromised patients. The student utilizes preventive principles and techniques for assigned clinic patients.

Seminar sessions are devoted to patient motivation and preventive treatment planning. The winter term seminar is case based and focuses on how to individualize preventive treatment plans to meet the individual needs of the patient.

A. OUANOUNOU, STAFF

DEN409Y1 Practice Administration

This is an interactive learning series beginning in the fall of Third Year and continuing through winter and spring terms and through Fourth Year, and is designed to provide the student with an understanding of the management and administration of a dental practice. Guest lecturers discuss relevant topics such as financing, accounting, resumes, interview techniques, time management, partnerships, taxation and risk management so that students are well informed about factors to be considered when entering private practice.

J. POSLUNS, STAFF

Fourth Year

In the Fourth Year the student applies the basic knowledge and techniques already acquired, to gain further clinical experience and familiarity with more advanced treatment services. To prepare students

for entry into the profession as general practitioners, emphasis is placed upon integration of the various programs and overall management of patient treatment. In addition to their work in the Faculty's Clinics, students participate in elective programs, clinical conferences and hospital-based experiences.

Clinical Practice

See Third Year description.

DEN400H1 Anaesthesia

This course consists of seminars and clinical experience in anaesthesia as it applies to dentistry. The seminars review the protocol and applied aspects of handling medical emergencies. Students practice oxygen administration, intramuscular injection and venipuncture techniques on each other. The clinical component is carried out throughout the academic year and involves writing anaesthesia consultations for their patients, administering nitrous oxide:oxygen conscious sedation and taking a competency test for the latter. This is a credit/non-credit course.

H. KESTENBERG, STAFF

DEN409Y1 Practice Administration

This is an interactive learning series beginning in the fall of Third Year and continuing through winter and spring terms and through Fourth Year, and is designed to provide the student with an understanding of the management and administration of a dental practice. Guest lecturers discuss relevant topics such as financing, accounting, resumes, interview techniques, time management, partnerships, taxation and risk management so that students are well informed about factors to be considered when entering private practice.

J. POSLUNS, STAFF

DEN410H1 Orofacial Pain: Mechanisms, Diagnosis and Management

The objective this course is to integrate basic and clinical sciences related to orofacial pain, in order to improve awareness on pain differential diagnosis, etiologies, mechanisms, and management.

Education about pain is complex, because of its multidimensional nature, its association with emotional, psychological and social disorders, and impact on the patient's well-being and quality of life. The course is designed to offer students insight into these intricate aspects of pain.

Upon completion of this course, students should be able to appreciate the socioeconomic burden of acute and chronic pain, in addition to their effects on the patient's quality of life. Emphasis will be put on the importance of understanding peripheral and central pain mechanisms, toward differential diagnosis of various orofacial pain conditions, and evidence-based treatment decisions that range from physiotherapy to pharmacological approaches. The contribution of genetics and the immune system, gender and behavioral issues to pain will also be discussed. Students will also learn about movement disorders that may be associated with pain, bruxism being the most commonly identified in dentistry.

P. CHERKAS, STAFF

DEN411Y1 Clinical Application of Practice Administration

This course puts into practice the concepts and topics discussed in Practice Administration (DEN409Y) while managing patients. Students must prepare for and attend all regularly scheduled chart audits. Students must also successfully complete the final chart audit to be awarded a credit for this course.

J. POSLUNS

DEN449H1 Ethics, Professionalism, Law III

Ethics is critical to being a professional and a working knowledge of the legislation that impacts on practicing dentists is important. To assist students in their understanding of this important topic, this course is to reinforce ethical principles discussed in modules 1-4 of DEN249H1 and modules 5-8 of DEN349H1. Concepts are reviewed and further developed at a higher level in the context of application to daily practice.

I. FEFERGRAD, STAFF

DEN450Y1/DEN451Y1 Comprehensive Care Program

This multidisciplinary clinical program begins in May of third year and continues throughout fourth year in order to provide continuing care for all assigned patients and to amplify the student experience in provision of optimal comprehensive care. Students participate in the assessment, diagnosis, treatment planning and provision or management of the treatment needs for all patients for whom they are designated primary providers. The process begins in the diagnostic clinics and continues in the comprehensive care clinic for the same student and patient wherever possible. The emphasis is on providing optimal patient care which addresses the oral health needs of the patient and takes into consideration the patient's wishes. Emphasis is placed on provision of optimal disease control and prevention for all patients prior to more extensive rehabilitation. Major program goals are the completion of treatment for all assigned patients and adequate preparation of students for general practice.

Students are assigned to Clinical Comprehensive Care Teams each with designated Coordinators, specialist consultants and clinical instructors. Central to the program objectives is the development of a rational treatment plan for an informed patient. Treatment planning is carried out by Team Coordinators and the process ensures careful patient assessment and appropriate specialist consultations. The program emphasizes the educational development of treatment planning, critical thinking and decision-making skills. Patient-Based-Learning (PBL) didactic seminars are conducted in small student groups throughout the program, towards the same educational objectives and sharing the resource of CCP patients.

The Comprehensive Care Program culminates in case-based comprehensive didactic examinations for adult patients as well as a final oral review of the student's portfolio. This reflective review covers the comprehensive care of the student's assigned patients during CCP3 and CCP4. Conducted by teams of academic staff, the oral examination is the final assessment of the student's overall achievement of obtaining the competency of a beginning dental practitioner.

D. CORNELL, STAFF

DEN453Y1 Endodontics

This course offers the student didactic and clinical components. The didactic component in the fall term is designed to introduce the student to advances in endodontic science and technologies. This course will adopt a problem-based learning approach for clinical case presentations by students in small groups. The clinical component expands the knowledge and an experience gained in the 3rd year, and provides the student opportunities to acquire the skills and experience in providing basic endodontic treatments in the context of comprehensive dental care.

P. CHERKAS, STAFF

DEN456Y1 Oral Diagnosis and Oral Medicine

Students continue to attend the Oral Diagnosis and Emergency Clinics for further experience in history taking, examination, patient evaluation and dental management of the medically compromised patient. They will learn to interpret the findings from the patient's chief complaint, medical, social, family and dental histories, as well clinical exam and other appropriate tests. The students will request and evaluate medical information from their patient's physicians or other health team members.

K. BURGESS, STAFF

DEN459Y1 Oral Radiology

The 4th year course builds on the clinical and didactic Oral Radiology experiences from second and third years. Skills in radiographic techniques and radiologic interpretation continue to be developed through patient assignments and case reporting during radiology clinic assignments. An emphasis is made on appropriate prescription of radiographs, competent imaging technique and thorough reporting. Recognition of normal anatomy and variants is reinforced. A seminar on advanced radiologic interpretation provides the opportunity to practice radiologic diagnosis of lesions of the jaws.

S. PERSCHBACHER, STAFF

DEN462Y1 Oral and Maxillofacial Surgery

The Fourth Year Oral Surgery course consists of a series of lectures in the advanced aspects of Oral and Maxillofacial Surgery presented in four different modules; Management of Dentofacial Deformities, Oral and Maxillofacial Trauma, Surgical Management of Pathology and Temporomandibular Joint Disorders. The goal of this program is to provide the students with a basic understanding and the diagnostic capability to approach these more advanced aspects, of Oral Surgery which customarily are dealt with by Oral and Maxillofacial Surgeons.

The clinical part of the course is the continuation of the clinical work started during the third year in the Oral Surgery clinic. During the fourth year a large number of clinical procedures will be performed in the clinic making this year essential in the development of the diagnostic, clinical, and differential diagnosis Oral Surgery skills for the students

N. KATSIKERIS, STAFF

DEN465Y1 Orthodontics

The fourth year orthodontic program has both didactic and clinical components. In the didactic part, a series of lectures are given to strengthen students' diagnostic abilities and broaden their perspective in incorporating orthodontic treatment in multidisciplinary treatments. The aim of the didactic part is to provide students a better understanding of basic application of orthodontics in daily practice and advanced orthodontic treatment planning in more complex cases. In the clinical part, students are exposed to initial orthodontic screening of prospective patients for graduate orthodontic clinic, fabricate and adjust removable orthodontic appliances, and academic discussions to evaluate treatment outcome of orthodontic treatment for a wide range of malocclusions. Student performance is monitored through one term test at the end of fall semester, one oral exam at the end of academic year and daily clinical performance throughout the year.

E. ARAT, STAFF

DEN468Y1 Pediatric Dentistry

Additional emphasis in clinical Pediatric Dentistry is given and advanced treatments during the primary, mixed and permanent dentition periods, including management of dental abnormalities and injuries to teeth, are emphasized both in the Faculty clinic and a Community Dental Clinic in Toronto. Students are encouraged to treat children under conscious sedation and to see multiple patients in each of their sessions. In addition, students will have a required assignment to the Pediatric Dentistry Surgicentre. The dental care of persons with special needs is provided through affiliated hospitals. Various members of the department give seminars in advanced Pediatric Dentistry throughout the year. Elective programs in conjunction with the Hospital for Sick Children, Mount Sinai Hospital, Toronto Rehabilitation Institute, Moose Factory Dental Project and Weeneebayko General Hospital are available.

H. NAINAR, J. RUKAVINA, STAFF

DEN471Y1 Periodontics

The major objective of fourth year Periodontics is to graduate general practitioners who possess the knowledge, judgement, skill and motivation to serve individual patients and the community's needs in the recognition, treatment and prevention of periodontal diseases. In the Comprehensive Care clinics in fourth year, emphasis is placed on integrating periodontal diagnosis and treatment within the overall oral health care of patients. Students are challenged to learn how Periodontics influences the management of both uncomplicated and complex cases. Discrimination between cases treatable in general practice and those which should be treated through co-operation between generalist and specialist, is stressed.

R. GHILZON, STAFF

DEN474Y1 Preventive Dentistry

There are no formal lectures or seminars in this course, as it is independent and self-directed. Cases are presented where individuals at high risk of dental disease have been identified and preventive care has been individualized for such patients. Cases, which present other challenging preventive problems, are also presented and discussed. A clinical assignment requires that students evaluate the risk of dental disease in selected clinic patients and provide an appropriate level of preventive care for each.

A. OUANOUNOU, STAFF

DEN477Y1 Prosthodontics

This course consists of a lecture series in the fall term and assignments in the clinic in the fall and spring terms. The objective of the didactic course is to create congruity between the understanding of the sequelae of partial and complete edentulism and evidence based decision making regarding prosthodontic management.

B. LEUNG, G. ANDERSON, STAFF

DEN480Y1 Restorative Dentistry

The program consists of the restorative clinical care of Comprehensive Care Program patients. The aim is to broaden the student's clinical experience and to further develop and refine his/her operative skills and diagnostic acumen. More advanced treatments are carried out and alternative forms of treatment are discussed. Emphasis is also placed on integration of restorative care with the other clinical programs. Minimum treatment requirements are established to ensure adequate clinical experience has been provided followed by clinical competency testing.

Lectures amplify and broaden the students' didactic knowledge with emphasis on recent developments in Restorative materials and techniques.

O. EL-MOWAFY, W. EL-BADWARY, STAFF

DEN490Y1 Community Based Service Learning

The role of the dental provider extends beyond the traditional dental office. Populations exist that are unable to access oral health care through conventional methods of treatment. These populations continue to increase in number, leading to concerns regarding access to care to a growing number of Canadians. In order to serve these populations and to expose students to the importance of delivery care in a variety of non-traditional venues, this course encompasses a number of off-site clinical rotations.

Students must be exposed to the role of the profession in delivering care to marginalized populations. In order to provide this exposure, students in their final dental year spend a day in University of Toronto affiliated clinics and community based sites.

J. POSLUNS, STAFF

DEN491Y1 Dental Outreach Community Services

Community Health is the study of the health of populations in a community context. The purpose of this course is to educate dental students on how dentistry can contribute in improving health and achieving equity in health for all people in the community. This clinical course identifies and organizes a number of off-site rotations in Ontario in need of access to dental care, providing students with a varied educational experience in dealing with the challenges of delivering care to those in need. Students will be scheduled in limited numbers to visit the identified clinics to provide dental care, and to experience actual oral health

challenges alongside a team of local dental care providers and community members, as part of a community-based outreach initiative to promote oral health prevention and treatment. Rotations are expected to be 1-2 days. Students are supervised by an affiliated instructor of the Faculty, and each student will be required to present their findings and self-reflections about their community health experiences. Application for this course is required and only appropriate students will be selected. Enrollment is limited.

A. AZARPAZHOOH, STAFF

DEN492Y1 Dental Outreach Global Services

Global Health is the study of health of populations in a global context, and focuses on transnational health issues, determinants, and solutions. Global health involves many disciplines within and beyond the health sciences and promotes interdisciplinary collaboration, and is a combination of population based prevention with individual-level clinical care. The purpose of this course is to educate dental students on how dentistry can contribute in improving health and achieving equity in health for all people worldwide. Students will become familiar with the public health, demographic, socio-economic, cultural, health disparity and logistical issues of a particular country. Students will visit the country to experience actual oral health challenges alongside a team of highly trained Canadian and American dentists, as well as local dental care providers and community members. Each student will be required to present their findings and self-reflections about their global health experiences.

Application for this course is required and only appropriate students will be selected. Enrollment is limited.

A. AZARPAZHOOH, STAFF

International Dentist Advanced Placement Program

Note: The regulations in the [Academic Rules and Regulations](#) section of this Calendar apply to students in the International Dentist Advanced Placement Program.

Admission Information

The International Dentist Advanced Placement Program is a special university program held over six months. After successful completion of this program students are admitted into and fully integrated into the third year of our four year Doctor of Dental Surgery Program, leading to a degree. The program is intended for graduates of non-accredited dental programs, i.e. educational programs that have not been recognized by the Commission on Dental Accreditation of Canada (CDAC) or the American Dental Association Commission on Dental Accreditation. Upon successful completion of the International Dentist Advanced Placement Program, the third year and fourth year of the DDS program and the NDEB examinations, the candidate will be eligible for licensure/ registration as a dentist. Once admitted into the third year of the DDS program, the rules of the DDS program apply.

The following admission guidelines apply to all applicants. Please consult the Faculty of Dentistry website for complete information at: www.dentistry.utoronto.ca.

To be eligible for admission into the International Dentist Advanced Placement Program applicants must:

- Have completed a minimum four-year University dental program, not recognized by the CDAC.
- Achieve a minimum overall grade point average of 3.0 (4.0 scale) for all dental coursework.
- Be a Canadian citizen or have permanent residency status in Canada by the July 2nd application deadline. International Students are not eligible to apply to this program.
- As English is the primary language of instruction and communication at the University of Toronto, applicants must demonstrate an adequate level of proficiency in English, regardless of their citizenship status or country of origin. Applicants from universities outside Canada where English is not the primary language of instruction must provide results of an English language proficiency examination as part of their application. Tests must have been taken **within the last 24 months** at the time of submission of their application. Acceptable proof of English facility must be submitted by the application deadline (July 2). Official test scores must be sent by the testing agency directly to the University of Toronto. Our institution code is 0982. The following tests are recognized:
 - a) Test of English as a Foreign (TOEFL): The Minimum requirement is TOEFL PBT - total score 600 + 5.0 on TWE and for TOEFL IBT - total score 100 + 22 on Writing.
 - b) Michigan English Language Assessment Battery (MELAB): The minimum requirement is an overall score of 85, with no part below 80.
 - c) International English Language Testing System (IELTS) Academic Module: The minimum requirement is an overall band of 6.5, with no band below 6.0.

- d) The Certificate of Proficiency in English (COPE): The minimum requirement is an overall score of 86, with 32 in Writing and 22 in each of the Reading and Listening sections.
 - e) Academic Preparation ESL, School of Continuing Studies, University of Toronto: The minimum requirement is a grade of 'B' at the 60/Advanced level.
- Write the **Assessment of Fundamental Knowledge (AFK) Examination** administered by the National Dental Examining Board of Canada (NDEB) prior to the July 2nd application deadline, and to arrange for their results to be forwarded directly to the Admissions Office. The AFK exam must have been taken within the last three years at the time submission of your application. **To register for the AFK exam contact:**

The National Dental Examining Board of Canada
 80 Elgin Street, 2nd Floor
 Ottawa, ON
 K1P 6R2
 Telephone: (613) 236-5912
 Email: info@ndeb-bned.ca
 Web site: <https://ndeb-bned.ca/en/non-accredited>

How to Apply

To apply to the International Dentist Advanced Placement Program you must complete the online **application form** from the Faculty of Dentistry website. In addition to the online application form the following documents must be received by the **July 2nd** application deadline:

- Non-refundable application service fee of \$ 275.00 CDN payable to the University of Toronto. Payment may be made by credit card, bank draft, or money order. **We do not accept personal checks or cash.**
- Proof of citizenship (if applicable), i.e. Canadian citizenship or permanent resident status (photocopy only). This document can be mailed directly, faxed to: (416) 979-4944 or sent via e-mail to: admissions@dentistry.utoronto.ca.
- Proof of English facility (if applicable) sent directly by the testing agency to the University of Toronto.
- A notarized copy of your dental school diploma accompanied by a notarized English translation, if applicable.
- A notarized copy of your dental school marks accompanied by a notarized English translation, if applicable.
- A photocopy of your NDEB Assessment of Fundamental Knowledge Exam results.
- Applicants who are submitting documents in a name other than that shown on the application must submit proof of name change with the application. A notarized copy of one of the following is acceptable: marriage certificate or Change-of-Name Order issued by an Ontario Court Judge, or by another court of competent jurisdiction.
- Letter of extenuating circumstances (if applicable) to assist in the assessment of your qualifications. This letter should not exceed 750 words.

Admission documents need to be mailed to the following address:

Admissions Office
 Faculty of Dentistry

124 Edward Street, Room 104
Toronto, ON M5G 1G6, Canada

Interviews

By the end of September each year shortlisted applicants will be invited for an interview based on their potential as shown by their academic achievement and AFK scores. Those not invited for an interview will be informed at this time as well. The interviews are held on one weekend at the end of October each year.

Selection and Notification of Applicants

The selection of applicants is made by the Undergraduate Admission Committee that reports directly to the Council of the Faculty of Dentistry. The criteria for selection are established by the Admission Committee and approved by Faculty Council. Final offers for admission to the IDAPP program will be made to selected members of this group of interviewed applicants and will be based upon academic achievement, AFK scores and the results of the interview process. In making its decisions the Committee takes all of this information into consideration. In mid-November, interviewed applicants will be notified by e-mail of the decision made by the Committee with respect to their application. The decision of the Faculty of Dentistry concerning admission into the International Dentist Advanced Placement Program is final. No appeal mechanism exists.

Applicants who have previously failed in University Education

Applicants who have been required to withdraw by a dental school for academic or other reasons will normally be ineligible for admission to the International Dentist Advanced Placement Program.

Transfer within Canada

Requests for transfer from other Advanced Standing Programs will not be accepted.

Applicants with a Communicable Disease

All Faculty of Dentistry students are expected to be in a state of health such that they may participate in the academic program, including patient care, without posing a risk to themselves or to others. Students with a communicable disease may pursue their studies only as long as their continued involvement does not pose a health or safety hazard to themselves or others. Such a health or safety hazard, if protracted, may preclude them from participation in clinical work essential to the satisfactory completion of their program of study. The health status of all students shall remain confidential. Registration status for HBV Carriers remains CONDITIONAL until the Expert Panel on Infectious Diseases reviews their case.

Counselling

All incoming students will have the opportunity of orientation counselling to discuss student services, financial assistance, enrolment procedures, housing and other concerns. Appointments may be arranged through the Admissions Office.

Admission Deposit

A \$2000 CDN non-refundable deposit will be required from each applicant granted admission. It will be applied to the fees providing he/she register.

Regulations Governing the International Dentist Advanced Placement Program

The program and degree regulations given in Section 2 of this calendar apply to the International Dentist Advanced Placement Program in Dentistry with the substitution of 'International Dentist Advanced Placement Program' for 'DDS program' and the appropriate reduction in the number of years. However, items 3, 4, 9, 12, 13 do not apply; appropriate versions of these sections follow.

First Aid Course and CPR

Students registering in the International Dentist Advanced Placement program are required to obtain certification of satisfactory completion of (a) a Canadian Red Cross Society or St. John Ambulance course in First Aid (or its equivalent) and (b) a CPR Basic Rescuer course before they may register in the IDAPP program. The CPR course must have been completed within the past two years. All students must present evidence of recertification in the CPR Basic Rescuer course by the last day of classes in 4th year. Certificates verifying completion of such courses must be submitted to the Student Services Office by the last day of classes in the 4th year of the program. The Faculty of Dentistry does not offer instruction in these courses as part of the D.D.S. program.

Courses

Students will take all courses and examinations of the program at the times set by the Faculty and under the direction of the Faculty staff.

The courses of the curriculum are divided into two categories - didactic, which includes all lectures and some laboratory and clinical/preclinical. Clinical comprises the preclinical laboratory courses (Restorative Dentistry, Orthodontics, Pediatric Dentistry and Prosthodontics) and all clinical work in Third and Fourth Years. All courses involving technical procedures must be completed in the Faculty laboratories under the direction of the staff in accordance with the regulations laid down by the programs concerned.

Exemptions

No exemptions from courses will be permitted to students registered in the International Dentist Advanced Placement program.

Supplemental Examinations

Clinical courses in Third and Fourth Years do not have supplemental privileges, except for the Clinical Comprehensive Care Program oral and written examinations. For all other courses, students who fail a course have the privilege of a supplemental examination. A supplemental examination is defined as a special examination for students who have failed a course, and is graded "Pass" or "Fail".

Students are permitted no more than two supplemental examinations in the International Dentist Advanced Placement program.

Consequences of Failure to Obtain Standing

Academic Standing is assessed at the end of the academic year. Students who fail to obtain academic standing by having failed more than two subjects or by having failed one or more supplemental examinations, before advancing to the D.D.S. program, will be required to repeat all courses of the failed program in which the student did not receive a grade of A- in the first attempt.

Any student who fails to achieve academic standing on two occasions shall be refused further registration in the Faculty.

The University of Toronto IPE Curriculum/ Program

Interprofessional Education (IPE) occurs when students from two or more professions learn about, from and each other to enable effective collaboration and improve health outcomes. Dental students interact with ten other health professional programs (medical radiation sciences, medicine, nursing, occupational therapy, pharmacy, physician’s assistants, kinesiology and physical education, physical therapy, social work and speech-language pathology) in mandatory and elective activities focused on the development of specific values and core competencies. The knowledge, skills, behaviours and attitudes developed through the IPE curriculum/program will enable students to provide collaborative patient/client-centered care in an interprofessional context.

There is one mandatory IPE learning activity during the IDAPP program – “Conflict in Interprofessional Life”, IDAPP student can also sign up for IPE electives from the IPE calendar. Any electives taken during IDAPP will count towards the students IPE activities during 3rd and 4th year of the DDS program.

Certificate of Registration for Dental Practice

Please refer to this topic in the [DDS section of the calendar](#).

Promotion

Following successful completion of the program students will be invited to register into the third year of the D.D.S. program.

International Dentist Advanced Placement Program Curriculum

Course No.	Course Title Course	Lecture	Seminar	Laboratory	Clinic	Total	Weights
		Hours	Hours	Hours	Hours	Hours	
DPP105H1	Biomaterials	23	0	0	0	23	0.25
DPP111H1	Dental Public Health	46	0	0	0	46	0.50
DPP123H1	Biological Basis of Oral Health/Disease	30	0	0	0	30	0.25
DPP128H1	Periodontics	23	0	0	30	53	0.50
DPP132H1	Pharmacology	32	0	0	0	32	0.25
DPP138Y1	Prosthodontics	30	0	37	36	87	0.50
DPP141H1	Oral and Maxillofacial Radiology	14	0	0	4	18	0.00
DPP144Y1	Restorative Dentistry (preclinical)	0	0	0	123.5	123.5	0.50
DPP165H1	Restorative Dentistry (didactic)	32.5	0	0	0	32.5	0.25
DPP200H1	Anaesthesia	14	0	5	5	24	0.25
DPP202H1	Communication Skills	0	6	0	0	6	Pass/Fail
DPP208H1	Endodontics	30.5	0	54	0	84.5	0.50
DPP219H1	Medicine and pathology	21	0	0	0	21	0.25
DPP222H1	Orthodontics	16	28	0	28	72	0.50
DPP223H1	Pediatric Dentistry	14	0	19.5	0	33.5	0.25
DPP249H1	Ethics, Professionalism, Law I	0	10**	0	0	10	Pass/Fail
DPP356Y1	Oral Diagnosis and Oral Medicine	22.5	12	0	18	52.5	0.00
Total Hours		342.5	46	78.5	279.5	756.5	5.00

Course Descriptions: International Dentist Advanced Placement Program

The International Dentist Advanced Placement Program is an intense six months preclinical program. This period includes a series of lectures in a selected group of Clinical Science and Biological and Diagnostic Science subjects.

DPP105H1 Biomaterials

The lectures are designed to provide background knowledge of dental materials science that is required to understand how chemistry and structure of materials affect their physical and mechanical properties, and clinical application and performance. They also include a comprehensive review of the relationship between dental materials structure, properties, performance, and biocompatibility.

Y. FINER, STAFF

DPP111H1 Dental Public Health

In this course students will study Canada's oral health and learn the principles of evidence-based health care. The course will include epidemiological concepts and the strength of study designs, the epidemiology of dental conditions in Canada and the determinants of oral health, descriptions of the Canadian health and dental care delivery systems, and an overview of current issues in dental health care in Canada. In a second section students will learn the principles of clinical epidemiology and then work in small groups to complete an evidence-based report on a selected topic. Please refer to DEN207H1 Dental Public Health II for further information on the second section of this course.

A. AZARPAZHOOH, STAFF

DPP123H1 Biological Basis of Oral Health and Disease

This review course is designed to provide the incoming international dentist with a review of the current knowledge on oral health and disease mechanisms. Since research in this area is proceeding rapidly, guest lecturers, most of whom are clinicians, are asked to provide the students with a brief review of the basic mechanisms of health and disease. They are also asked to bring students up to date regarding how far various scientific fields relating to oral health and disease have advanced.

There are 14 lectures on topics ranging from the histology of soft tissues, the biochemistry of mineralized tissues, oral bacterial ecology, immunity, and oral physiology. Upon completion of the course, students will have an understanding of the basic concepts that will help them prepare for the other didactic courses in the IDAPP.

G. KULKARNI, STAFF

DPP128H1 - Periodontics

The didactic lecture series centers on the pathogenesis, pathology, diagnosis and approaches to therapy for the various periodontal diseases. The preclinical module teaches the fundamental skills in scaling technique, instrumentation and instrument sharpening. In the clinical component students exam, chart, diagnose, treatment plan patients and also perform scaling, root planing and oral hygiene instruction.

R. GHILZON, STAFF

DPP132H1 Pharmacology

This course provides an up to date focus on the principles of pharmacology and selected systems and topics relevant to the therapeutic management of patients in dental practice. Topics include autonomic, respiratory, cardiovascular, central nervous system, antimicrobials, anticoagulants, pain management and drug regulations in Canada. Clinically relevant case studies are included and students have an opportunity to work in small groups.

J. LANÇA, STAFF

DPP138Y1 Prosthodontics

This course takes into consideration that students have prior experience in prosthodontics. The course consists of a didactic component and a preclinical practical component carried-out on manikins and stone models. The overall goals are to maximize students' knowledge and understanding of the multiple dimensions of prosthodontics and the restoration of oral functions, and build their clinical skills, professional behaviour and attitude that are required for successful treatment of patients in subsequent years. The course covers aspects of fixed and removable prosthodontics including diagnostic procedures, treatment planning and technical solutions for patients who require replacement of missing teeth and the restoration of function with fixed and/or removable prostheses including, acrylic and cast removable partial dentures, conventional and implant-supported complete dentures, short-span conventional fixed prostheses and single implant-supported crowns. Students will learn principles of treatment planning and the application of biomechanical principles in prostheses design, taking into consideration physiological factors and potential risks and benefits to each individual patient. Students must attend all lectures, laboratory and clinical sessions, and must come prepared to all laboratory sessions. Knowledge and clinical

competency of students are tested via written quizzes and tests, and practical exam and assignments.

L. AVIVI-ARBER, STAFF

DPP141H1 Oral and Maxillofacial Radiology

Lectures and seminars introduce the student to the principles of radiation physics and hygiene, biology, radiographic imaging modalities, technique and the interpretation of normal anatomy and its variations, including common diseases affecting the teeth and jaws. Clinical sessions provide students with the opportunity to learn and practice intra-oral imaging techniques incorporating infection control protocol, utilizing the two digital imaging systems (CMOS and Photostimulable Phosphor receptors). Radiographic interpretation is introduced reinforcing lecture material.

M. CASH, STAFF

DPP144Y1/DPP165H1 Restorative Dentistry

This course consists of two components, a didactic component and a practical (preclinical) component. The objectives of this course are to review current restorative treatment principles and procedures with the participants and ensure that they are at the level of competency required before they can treat patients on the clinical floor. The course covers all the aspects of cavity preparation and restoration for both the direct and indirect techniques (both intra- and extracoronary). It involves reviewing methods of diagnosis of initial and recurrent caries and introducing state of the art management regimes and procedures for carious- and endodontically-treated teeth. For the practical component of this course a clinical stimulation set-up is used in order to optimize proximity to the real situation. Teaching in the laboratory is conducted in small groups of participants (no larger than 8) each allocated to one instructor.

At the culmination of this course, participants are expected to have reached a competency level in both didactic and preclinical restorative dentistry to enable them to proceed to patient treatment on the clinical floor. Participant must pass examinations in both the didactic and practical components of this course independently.

O. EL-MOWAFY, STAFF

DPP200H1 Anaesthesia

The courses in anaesthesia extend from second through the third and fourth dental years. They cover aspects of pain control and patient management in order to provide the dental student with the knowledge and skills needed to render the conscious patient freedom from pain and apprehension.

The objectives of the course in second year are to provide the students with the in-depth pharmacology of those local anaesthetics and vasoconstrictors used in dentistry, as well as the ability to technically administer these drugs and achieve local anaesthesia. The first part of the course discusses the detailed specific injection techniques covering all forms of intra-oral anaesthesia for dentistry in the mandible and maxilla, their complications, and the required armamentarium. Students then practice these injection techniques on each other in the clinic. The second part provides an in-depth discussion of the

pharmacology of local anaesthetics.

P. NKANSAH, STAFF

DPP208H1 Endodontics

This course offers the student didactic and preclinical experiences designed to establish the student's basic knowledge of the nature, the diagnosis and the treatment of pulpal and periapical disease. The didactic and preclinical courses are given during the winter and spring terms. The goal of this course is to acquire knowledge and preclinical skills equal to those of second year DDS students.

The didactic component commences with an overview of the endodontic disease and associated therapies. Later it provides more comprehensive review of the Pulpal and periapical physiology, pathology and diagnosis of healthy and diseased endodontium. A portion of the course is dedicated to the understanding, prevention and treatment of the Endodontic emergencies and Traumatic injuries of the teeth. The preclinical component is mostly directed towards preparing the student to perform basic clinical endodontic procedures prior to entering the clinics in third year.

P.CHERKAS, STAFF

DPP219H1 Medicine and Pathology

The course is designed to provide basic knowledge of common medical conditions, reviewing the etiology, pathogenesis, pathologic and clinical features of each condition. The purpose of the course is to understand the pathologic basis of the medical condition, how it may impact the patient's health, how the illness presents clinically at the bedside, and to develop an approach to treating patients with chronic medical conditions. The relevance of these conditions on the practice of dentistry is emphasized throughout the course. The course builds upon content learned in Basic Disease Mechanisms and Pharmacology, but provides a more clinical perspective. The lectures are complemented with three problem-based learning seminars revolving around real-life scenarios that may be seen in dental practice.

D. CHUGH, STAFF

DPP222H1 Orthodontics

This course consists of a series of lectures, aiming at familiarizing the students with the material taught in the 2nd DDS year. During this preclinical phase students review basic orthodontic concepts such as cephalometrics, model analysis, and basic aspects of orthodontic treatment that they will use in their diagnosis, treatment planning and patient treatment in the ensuing two years.

S. SURI, STAFF

DPP223H1 Pediatric Dentistry

This course consists of a didactic and clinical component which is designed to introduce the student to the fundamental principles and philosophies as they pertain to dentistry for children in order to prepare the students for entry into the Clinical Core Program in Pediatric Dentistry. The didactic component will include lectures and laboratory sessions on restorative dentistry for the primary dentition. The didactic component will include a basic overview of dentistry for children including early childhood care and prevention, development of the occlusion, introduction of the child to the clinic which includes

information on the administration of local anesthesia, application of rubber dam, and intra oral radiography.

P. ANDREWS, STAFF

DPP356Y1 Oral Diagnosis and Oral Medicine

A course of lectures, seminars and clinical sessions introduce the student to a system of diagnosis of dental and oral disease. Emphasis is placed on methods of history taking, examination, patient evaluation and management. This will include the evaluation and management of healthy patients as well as those with a wide variety of co-existing medical disorders. Students will learn the impact of medical conditions on treatment planning and provision of dental care. This course begins in IDAPP, and continues in Third Year.

K. BURGESS, STAFF

Graduate Degree Programs

Note: The general regulations listed in the **Academic Rules and Regulations** (page 183) section of this Calendar apply to all graduate students registered in the Faculty of Dentistry.

Staff 2019-2020

Associate Dean, Graduate Education

E. Lam

Graduate Faculty

Agur, A.

Azarpazhooh, A.

Bozec, L.

Bressman, T.

Casas, M.J.

Casper, R.F.

Cvitkovitch, D.G.

Davies, J.E.

De Souza, G.M.

Dempster, L.

Deporter, D.A.

Dostrovsky, J

El-Mowafy, O.

Finer, Y.

Ganss, B.

Glogauer, M.

Gong, S-G.

Grynpas, M.

Haas, D.

Hinz, B.

Kenny, D.J.

Kishen, A.

Lam, E.

Lawrence, H.P.

LeBlanc, V.

Lévesque, C.

Manolson, M.F.

McCulloch, C.A.G.

Moriarty, T.

Peel, S.

Prakki, A.

Quiñonez, C.

Santerre, J.P.

Sessle, B.J.

Seth, A.

Sherman, P.

Simmons, C.

Sone, E.

Tenenbaum, H.C.

Associate Members

Andrews, P.

Arat, E.

Avivi-Arber, L.

Barrett, E.

Barzilay, I.

Basrani, B.

Blanas, N.

Bradley, G.

Caminiti, M.

Campbell, K.

Carmichael, R.

Carneiro, K.

Cherkas, P.

Chvartszaid, D.

Cioffi, I

Cuddy, K.

Daskalogiannakis, J.

El-Badrawy, W.

Fisher, D.

Freeman, B.

Ghilzon, R.

Goldberg, M.

Holmes, H.I.

Iakounine, A.

Iglar, K.

Judd, P.L.

Katsikeris, N.

Kestenberg, S.H.

Kulkarni, G.

Lai, J.

Lam, D.K.

Lança, A.J.

Laporte, A.

Lee, L.

Leong, I.

MacMillan, R.

Magalhaes, M.

Malkhassian, G.

McComb, R.J.

Mendes, V.

Metaxas, A.

Moayedi, M.

Nainar, H.

Nkansah, P.

Ouanounou, A.

Perschbacher, S.

Pharoah, M.J.

Sectakof, P.

Shrestha, A.

Shokati, B.

Singhal, S.

Somogyi-Ganss, E.

Stevens, K.

Suri, S.

Sutherland, S.

Tam, L.E.

Tenn-Lyn, N

Wong, M.

Emeriti Members

Dao, T.

Ellen, R.P.

Fenton, A.

Liebgott, B.

Mayhall, J.T.

McComb, D.

Mock, D.

Pilliar, R.M.

Ross, R.B.

Sigal, M.J.

Titley, K.

Watson, P.A.

Zarb, G.A.

Tompson, B.D.

Wood, R.E.

Introduction

Research-Based Thesis Programs

The Faculty of Dentistry offers a graduate program leading to either a Master of Science or Doctor of Philosophy degree. This graduate program appeals to:

1. Applicants who have a degree in dentistry and who are pursuing research training and advanced clinical education leading to qualification in one of ten dental specialties; and
2. Applicants, both dentists and non-dentists, who are pursuing graduate research training without advanced clinical education.

Consequently, both the Master of Science and the Doctor of Philosophy degrees have a common core of course work and consist of three options, with each having varying additional research and training requirements. The Faculty's Funding Policy requires that all doctoral stream graduate students (M.Sc. and Ph.D. students who are not undertaking concurrent specialty training) receive base funding support from scholarships, awards and supervisor support equivalent to \$17,000 plus doctoral stream tuition plus fees for a maximum of 2 years for M.Sc. students. Funding for Ph.D. students that have not yet successfully completed their Qualifying Examination is in the amount of \$17,000 plus doctoral stream tuition plus fees and for Ph.D. students that have completed their Qualifying Examination, funding increases to \$18,500 plus doctoral stream tuition plus fees. Funding for Ph.D. students is guaranteed for a maximum of 5 years.

Ph.D.

Students in the Ph.D. program involving research training will undertake customized advanced study and research requiring a minimum of four years full-time attendance. Minimum course requirements include the course DEN1100Y Doctoral Seminars in Oral Health Sciences, Research Ethics (DEN1010H), plus an additional 2.5 full course equivalents (FCE) that includes the course DEN1015H Introduction to Biostatistics; submission of a thesis, which constitutes a distinct contribution to knowledge in the field. After 12 months and within 24 months of starting a Ph.D. program, candidates will be expected to pass a qualifying oral examination to demonstrate an adequate capacity for dental research through previous work and a thesis proposal.

M.Sc.

The program will ordinarily require one year of full-time registration; however, it is the Faculty's expectation that students will normally remain in full-time attendance on campus to enable full participation in departmental activities for two years. The first year of the program will include development of a research project and proposal, and course work, while the second year will be devoted largely to research and thesis completion and defense. Course work will normally include, as a minimum, fulfillment of the requirements for the course, DEN1001Y Master's Seminars in Oral Health Sciences, Research Ethics (DEN1010H) and successful completion of an additional 1.5 course equivalents (FCE) that includes the course Introduction to Biostatistics (DEN1015H). Permission for part-

time studies may be given if the proposed research is determined to be of a nature that can best be accommodated by part-time studies. No funding is provided for part-time students. Information on Ph.D. and M.Sc. doctoral-stream programs and regulations are found in the Calendar of the School of Graduate Studies.

Flexible-Time Program

The Department offers a flexible-time Ph.D. program for selected students whose career goal is a full-time academic position in a clinical specialty. Candidates concurrently establish their teaching and academic credentials. The major goal upon program completion is to enable candidates to compete for university tenure-stream professorial positions in their clinical science specialty. Students in this program will be guaranteed funding at the Faculty's minimum doctoral stream level for years one to four of this program.

The program, which is dedicated to research experience, does not involve clinical training other than clinical research methodology, and entails completion of the research and course work requirements for the Ph.D. degree half-time, while teaching in a clinical specialty half-time.

Applicants must meet all School of Graduate Studies and Graduate Department of Dentistry admission requirements for entry to the Ph.D. program. In addition, applicants must have attained a professional degree equivalent to the University of Toronto D.D.S. and a graduate degree equivalent to the University of Toronto M.Sc. Preference is given to:

1. applicants who have completed specialty education equivalent to the standard required for licensure as a specialist by the Royal College of Dental Surgeons of Ontario and
2. applicants who hold a University appointment in Canada at an academic standard equivalent to the University of Toronto Lecturer.

Appropriate research supervision and advisory committee membership, customized plan of study, and timetable for the completion of the degree requirements, as approved by the Associate Dean of Graduate Education, will be in place at program commencement.

The Chair and Coordinator of Graduate Studies monitor progress by review of completed advisory committee reports based on annual meetings of the student with the supervisory committee. Candidates will normally be expected to pass a qualifying oral examination to demonstrate an adequate capacity for dental research through previous work and a thesis proposal. Although the minimum residency requirement for the Ph.D. is one year, the anticipated completion date for the flexible-time Ph.D. program will be within five to six years from the registration date. The maximum time for completion will normally be eight years. Candidates are required to:

1. complete minimum course work requirements (to include DEN1100Y Doctoral Seminars in Oral Health Sciences, Research Ethics (DEN1010H) plus an additional 2.5 full course equivalents (FCE) that includes the course Introduction to Biostatistics (DEN1015H);
2. after 12 months and within 24 months of starting the flex-time program successfully complete the

qualifying oral examination to demonstrate an adequate capacity for dental research through previous work and a thesis proposal.

3. participate in all graduate research activities of the advisor's research group;
4. conduct research leading to completion of the thesis;
5. present at meetings and publish original research findings in timely fashion; and
6. participate as members of departmental and student committees as applicable.

Research-Based Programs Including Specialty Training

M.Sc. – Thesis option is offered for dental graduates seeking advanced training in a clinical specialty as well as training in research. The program requires two to four years of full time registration, depending upon the clinical specialty, and involves completion of an original research project culminating in an oral defense of a written thesis, and completion of clinical and didactic coursework requirements as necessary to meet requirements for the degree that includes successful completion of the courses DEN1014H Clinical Epidemiology and Evidence-Based Care; DEN1015H Introduction to Biostatistics; Research Ethics (DEN1010H) and DEN1001Y Master's Seminars in Oral Health Sciences. Upon completion of all program requirements students are eligible for the graduate degree, and for Specialty, Fellowship, or Board Certification in the chosen dental specialty.

M.Sc. – Coursework only option is offered for dental graduates seeking advanced training in a clinical specialty in which additional coursework is undertaken as an alternative to a thesis. It is offered at the discretion of the Graduate Specialty Program Director. Admission, to the M.Sc. (Dental Public Health) coursework only option, may be granted to dental hygienists with a 4 yr B.Sc. degree with dental hygiene credentials.

This program requires two to four years of full time registration, depending upon the clinical specialty, entails completion of all clinical and didactic coursework necessary for the chosen specialty that includes successful completion of the courses Clinical Epidemiology and Evidence-Based Care (DEN1014H); Introduction to Biostatistics (DEN1015H); Research Ethics (DEN1010H) and Master's Seminars in Oral Health Sciences (DEN1001Y) along with three half-courses (1.5 FCE) in clinical, epidemiological, or basic science research methodology appropriate for clinical or public health practice. In addition, preparation; completion; and oral defense of a one-half course weighted Research Practicum (DEN1061H). Upon completion of all program requirements students are eligible for the graduate degree. Graduands with the exception of dental hygienists, are eligible for Specialty, Fellowship, or Board Certification in the chosen dental specialty.

Program Transfer – M.Sc. to Ph.D.

M.Sc. students pursuing either of the M.Sc. doctoral-stream, and the M.Sc. specialty-thesis option,

who are demonstrating excellent progress in all facets of their program, may apply to transfer from the M.Sc. to the Ph.D. degree. Transfer examination timeframes vary according to the M.Sc. option being pursued, usually between 12 to 24 months from program commencement.

Ph.D. Specialty thesis option is offered for exceptional dental graduates seeking advanced training in a clinical specialty as well as training in research at the Ph.D. level. The purpose of this program is to train clinician/scientists who aspire to teaching and research careers in oral health sciences. The program involves completion of an original research project culminating in an oral defense of a written thesis, completion of the course Doctoral Seminars in Oral Health Sciences (DEN1100Y), plus an additional 1.0 full-course equivalent (FCE) pertaining to the research component of the program, together with completion of clinical and didactic course work requirements as necessary for the chosen clinical specialty that includes successful completion of the courses Clinical Epidemiology and Evidence-Based Care (DEN1014H), Research Ethics (DEN1010H) and Introduction to Biostatistics (DEN1015H). After 12 months and within 24 months of starting a Ph.D. program, candidates will be expected to pass a qualifying oral examination to demonstrate an adequate capacity for dental research through previous work and a thesis proposal.

These programs meet CDA educational accreditation guidelines for eligibility for Specialty, Fellowship or Board Certification in the dental specialties listed below. This applies to registrants in all specialty programs with the exception of Dental Hygienists registered in the M.Sc. (Dental Public Health) Coursework only option:

- Dental Anaesthesia
- Dental Public Health
- Endodontics
- Oral Pathology & Oral Medicine
- Oral Pathology Oral Medicine
- Oral and Maxillofacial Radiology
- Orthodontics
- Oral & Maxillofacial Surgery
- Pediatric Dentistry
- Periodontology
- Prosthodontics

All programs are a minimum of three years, except Dental Public Health, (2 years) Oral Pathology & Oral Medicine, and Oral & Maxillofacial Surgery (4 years). The M.Sc. Specialty program has a prescribed timetable, whereas the Ph.D. Specialty thesis option is individualized.

It should be noted that the University of Toronto degree does not in itself confer the right of certification as a specialist. In Ontario, this is the prerogative of the Royal College of Dental Surgeons of Ontario, to which all questions regarding certification should be addressed (see Section of this Calendar entitled “License for Dental Practice”).

Students (with the exception of Dental Hygienists) enrolled in a clinical specialty program must not only meet the minimum requirements set out above, but in addition, in an extended residency period, must meet the requirements demanded for specialty certification.

Statement of Good Academic Standing

A student is considered to be in “good academic standing” when they maintain the requirements of minimum grade performance in coursework (B-) and meet at least once per academic year (July 1 to June 30) with their Advisory Committee and have submitted an Advisory Committee Report to the Student Services Office for review by the Associate Dean for Graduate Education following such a meeting. **Failure to maintain good academic standing may result in various sanctions, including ineligibility for financial assistance, lowest priority for bursaries and assistantships, and even termination.**

A student who encounters difficulties arranging a meeting of this Committee should consult the Student Services Office in advance of the relevant deadline for doing so. **A student who, through his or her own neglect, fails to meet with their Advisory Committee in a given academic year will be considered to have received an unsatisfactory progress report from the Committee. In each of two consecutive Advisory Committee meetings, if a student's Advisory Committee reports that the student's progress is unsatisfactory, the Associate Dean for Graduate Education in consultation with the supervisor may recommend to the School of Graduate Studies the termination of registration and eligibility of that student.**

Admission

Candidates will be accepted under the general regulations of the School of Graduate Studies. Eligible applicants must have either a dental degree or a 4-year Bachelor's degree with a B+ or 3.30 GPA (MSc program) or a A- or 3.70 GPA (PhD program) standing in the final year, or possess equivalent qualifications. Applicants to one of the specialty training programs must have a B+ or 3.30 GPA in the final year of their dental degree.

The selection of applicants will be subject to availability of supervision, funding and facilities, and to the applicant's suitability for the program sought.

Application Deadlines for M.Sc./Ph.D. Specialist Dental Training programs:

June 1 (year preceding admission)

Endodontics
Periodontology
Prosthodontics

August 1 (year preceding admission)

Oral and Maxillofacial Surgery

September 1 (year preceding admission)

Dental Anaesthesia
Oral Pathology
Oral Medicine
Oral Pathology & Oral Medicine
Oral and Maxillofacial Radiology
Orthodontics
Paediatric Dentistry

January 15 (year of admission)

Dental Public Health (first application deadline)

Only under exceptional circumstances will applications received after the closing dates be considered.

Enrolment to these programs is limited and is normally as follows:

Dental Anaesthesia -- 2
Dental Public Health -- 5
Endodontics -- 3
Oral Pathology/Oral Medicine/Oral Pathology & Oral Medicine -- 1
Oral and Maxillofacial Radiology -- 2
Orthodontics -- 4
Oral and Maxillofacial Surgery -- 3*
Pediatric Dentistry -- 4
Periodontology -- 3
Prosthodontics -- 2

*Annual enrolment is 2 Ministry of Health (MOH) funded students and 1 International Non MOH funded student with full Government/ Home University financial support.

Applicants who have been accepted to these programs are required, immediately on acceptance, to pay a \$2,000 deposit, which will be credited against their fees upon registration.

Facility in English

As English is the primary language of instruction and communication at the University of Toronto, applicants must demonstrate an adequate level of proficiency in English, regardless of their citizenship status or country of origin. Applicants from universities outside Canada where English is not the primary language of instruction must provide results of an English language proficiency examination as part of their application. Tests must have been taken **within the last 2 years** at the time of submission of their application. Acceptable proof of English facility must be submitted by the application deadline. Official

test scores must be sent by the testing agency directly to the University of Toronto. Our institution code is 0982. The following tests are recognized:

- a) Test of English as a Foreign (TOEFL): The Minimum requirement is TOEFL PBT - total score 580 + 5.0 on TWE and for TOEFL IBT - total score 93 + 22 on Writing/Speaking.
- b) Michigan English Language Assessment Battery (MELAB): The minimum requirement is an overall score of 85.
- c) International English Language Testing System (IELTS) Academic Module: The minimum requirement is an overall band of 7.0, with no band below 6.5.
- d) The Certificate of Proficiency in English (COPE): The minimum requirement is an overall score of 76, with 32 in Writing and 22 in each of the Reading and Listening sections.
- e) Academic Preparation ESL, School of Continuing Studies, University of Toronto: The minimum requirement is a grade of 'B' at the 60/Advanced level.

Note: We will not exempt from English facility testing any applicant who studied in English in a country where the primary language is not English.

The Faculty will exempt from English Facility testing for any student who has completed a degree at a recognized university in one of the following countries: Australia, Barbados, Botswana, Ghana, Guyana, Hong Kong, Ireland, Jamaica, Kenya, Lesotho, Liberia, Malawi, Malta, Namibia, New Zealand, Nigeria, Papua New Guinea, Sierra Leone, Singapore, South Africa, Swaziland, Tanzania, Trinidad and Tobago, Uganda, United Kingdom, United States of America, Zambia, and Zimbabwe.

How to Apply

To apply to the graduate program with Dental Specialty training applicants must complete the online application form from the School of Graduate Studies website at: <https://apply.sgs.utoronto.ca/>.

In addition to the online application form the following documents must be received by the Admissions Office by the application deadline:

- Non-refundable application service fee of \$ 285.00 CDN payable to the University of Toronto. Payment may be made by credit card, certified check, or money order. **We do not accept personal checks or cash.**
- A statement outlining your interest in the program. Include information on your background, interest, aptitude and ability for the Specialty Program. If available include information on the research project you wish to pursue.
- A Curriculum Vitae or Resume.
- Official transcripts of your academic record from each university attended are required for admission. Applicants who attended universities outside North America must provide notarized English translations to accompany all foreign documentation not written in English. It is the applicant's responsibility to arrange for transcript(s) to be sent directly from their institution to the Admissions Office. Academic records must be enclosed in an envelope provided by the institution(s) concerned and sealed or signed across the back of the envelope. Do not open. University of Toronto students applying to the dentistry program do not need to send in their official University of Toronto transcripts. We will download them from ROSI.

If academic records are interim pending completion of studies in progress, official final academic

records indicating that the degree has been conferred must be submitted to the Admissions Office as soon as possible and before admission can be finalized. The School of Graduate Studies includes instructions about clearing these conditions on the Offer of Admission.

- At least TWO supporting letters of reference are required. If referees are submitting hard copies of their reference letters, ask your referees to enclose the letter (there is no departmental form to be completed) of reference in a sealed envelope with a signature across the seal.
- Proof of English facility (if applicable) sent directly by the testing agency to the University of Toronto.
- For international students proof of sufficient funding for the duration of the intended program of study is required. Documentation is to be prepared and submitted by your financial institution or financial sponsor.

Applicants to the M.Sc. or Ph.D. degree programs with specialty training in Dental Anaesthesia are required to register with the Postgraduate Dental Matching Program.

The online application allows applicants to manage and submit all the required admissions documents listed above. All documents may be submitted together with your online application electronically, or hard copies can be submitted directly to the Admissions Office at:

Admissions Office
Faculty of Dentistry
124 Edward Street, Room 104
Toronto, ON M5G1G6
Canada

NOTE: Hard Copies of all transcripts together with all transcript keys from all post-secondary institutions attended must be submitted in sealed envelopes from the issuing institution(s) directly to the Admissions Office at the Faculty of Dentistry before the application deadline even if you upload an electronic copy of your transcript to your online application.

Selection and Notification of Applicants

The selection of applicants is made by the Graduate Admission Committee from each corresponding dental department. Shortlisted applicants will be invited for an interview based on their potential as shown by all their application documents. Those not invited for an interview will be informed as well. Interview notifications are sent out as follows:

- Late August for programs in Endodontics, Periodontology and Prosthodontics.
- Late November for all other programs.
- Late April for the program in Dental Public Health.

A \$2000.00 (CDN) deposit will be required from each applicant granted admission. It will be applied to the fees providing he/she registers.

Registration and Requirements

Students must register at the School of Graduate Studies at the times prescribed by the School and must also register at the Faculty of Dentistry. Students attending during the May-August period will be

required to complete their registration at the time the program starts. Students whose programs are incomplete at September 28 of the final program year are required to re-register and pay per term fees in September, at the beginning of a new academic year.

Graduate Student Certificate (License)

Candidates enrolled in a clinical specialty program must hold a General Certificate (License) or obtain a Graduate Students Certificate (License) from the RCDSO. Candidates must maintain current RCDSO certification for the duration of the program of study and bear all associated costs.

Clinics Associated with the Faculty

Due to liability issues, students working in a Faculty clinic must be supervised by a Faculty member at all times whenever they are treating patients and all work must be done within normal clinic hours. Students who disregard this regulation will be subject to suspension from the clinics.

Applicants with a Communicable Disease

All Faculty of Dentistry students are expected to be in a state of health such that they may participate in the academic program, including patient care, without posing a risk to themselves or to others. Students with a communicable disease may pursue their studies only as long as their continued involvement does not pose a health or safety hazard to themselves or others. Such a health or safety hazard, if protracted, may preclude them from participation in clinical work essential to the satisfactory completion of their program of study. The health status of all students shall remain confidential. Registration status for HBV Carriers remains CONDITIONAL until the Expert Panel on Infectious Diseases reviews their case.

CPR

All graduate students examining patients and/or rendering clinical treatment to them are required to show certification in CPR before they may register in the first year of their program. Annual certification in the CPR course is required before students will be permitted to register in subsequent years of their program. Overseas students who have difficulty satisfying the regulations in their first year of registration should consult with the Associate Dean of Graduate Education.

Attendance

All graduate programs are full-time unless specified otherwise and full-time attendance is required. Students may be employed outside the University only with the written permission of the supervisor and/or Graduate Specialty Program Director. Employment must be limited to a maximum of 10 hours per week in any term.

Vacation Policy

Graduate students are permitted to take up to 2 weeks' vacation time per academic year, in addition to the Winter Break, Reading Week and statutory holidays. In exceptional circumstances, additional time may be granted. Students must request the permission of their supervisor and/or Graduate Specialty Program Director in advance.

Health Protection Requirements

The general regulations regarding health protection apply to graduate and postgraduate students. See General Regulations in Section 8.

University of Toronto Policy on Official Correspondence with Students

The University and its divisions may use the postal mail system and/or electronic message services (e.g., electronic mail and other computer-based on-line correspondence systems) as mechanisms for delivering official correspondence to students. Students are responsible for maintaining and advising the University, on the University's student information system (currently ROSI), of a current and valid postal address as well as the address for a University-issued electronic mail account that meets a standard of service set by the Vice-President and Provost. Students are expected to monitor and retrieve their mail, including electronic messaging account(s) issued to them by the University, on a frequent and consistent basis. Students have the responsibility to recognize that certain communications may be time-critical. Students have the right to forward their University-issued electronic mail account to another electronic mail service provider but remain responsible for ensuring that all University electronic message communication sent to the official University-issued account is received and read.

Grading

SGS and Faculty of Dentistry Postgraduate Dental Education approved courses are graded as follows:

Letter	Numerical Grade	
<u>Grade</u>	<u>Scale Marks</u>	<u>Definition</u>
A+	90 - 100%	Excellent
A	85 - 89%	Excellent
A-	80 - 84%	Excellent
B+	77 - 79%	Good
B-	70 - 72%	Good
FZ	0 - 69%	Inadequate

Effective 2003-04, the SGS grading scale applies to all SGS and non-SGS courses undertaken. Failure to obtain a B- in any course in any M.Sc./Ph.D. program, may lead to termination of registration. Should a student be permitted to continue, he or she must repeat the relevant course, or an alternate course recommended by the Graduate Department of Dentistry and the School of Graduate Studies, and obtain a satisfactory grade. The FZ, as well as the report for the completed or alternate course will appear on the student's academic record.

Graduate Courses

GRADUATE COURSES OFFERED BY THE FACULTY TO MEET DEGREE REQUIREMENTS

DEN1001Y/DEN1100Y Seminars in Oral Health Sciences

(CR/NCR)

Seminars in Oral Health Sciences is required as part of the program for all M.Sc. and Ph.D. students at the Faculty of Dentistry. The course is designed to demonstrate research progress, develop and enhance presentation skills to a large audience, field questions and chair a seminar session. As part of this program, students must also meet individually with an instructor from the University of Toronto Health Sciences Writing Centre, one to two weeks before their seminar to receive expert advice on presentation skills and the design of their presentation.

Requirements:

During the course of their program, M.Sc. students are required

- To presents one 20-minute seminar during the final year of their research.
- To submit online in Quercus a 250-words (max) abstract for their seminar at least a week ahead of their presentation to be circulated.
- To present one poster at the Faculty of Dentistry Research Day
- To complete an anonymized peer-evaluation to be submitted online in Quercus after each session attended
- To chair one session.

During the course of their program, Ph.D. students are required

- To present at the 3-minute thesis event during their 1st, 2nd year and 3rd year.
- To presents two 20-minute seminar.
- To present two posters at the Faculty of Dentistry Research Day
- To submit online in Quercus a 250-words (max) abstract for their seminar at least a week ahead of their presentation to be circulated.
- To complete an anonymized peer-evaluation to be submitted online in Quercus after each session attended
- To chair two sessions.

Note that the first seminar and poster are to be presented in the year of their transfer or qualifying examination, and the second seminar and poster are to be presented during the year of their thesis defense.

The presenting student supervisors are expected to attend the student seminar.

Attendance:

For the students who are not undertaking concurrent clinical specialty training:

- MSc students are required to attend a minimum of 20 sessions until the successful defense of their thesis.
- PhD students are required to attend a minimum of 70 sessions until the successful defense of their thesis.
- For students who are undertaking concurrent clinical specialty training:
- MSc students are required to attend a minimum of 20 sessions throughout their specialty training period.
- PhD students are required to attend a minimum of 70 sessions throughout their specialty training period.

Please note, the average number of seminars per year is 26.

Feedback:

All students presenting will be offered feedback on their performance by Faculty members present during the session, either directly at the end of the session or by email.

All students attending the session will be asked to complete an anonymized peer-evaluation form immediately at the end of each session. This will be done directly by submitting the completed template in Quercus. An anonymized summary of the peer-evaluation can be requested by the presenters.

Evaluation:

Proof of attendance of student attending the session will be performed using TopHat. Each student must enroll in TopHat as attendance can be taken at any time during the session or multiple times if necessary. The evaluation of the course requirements will be based on the submission of peer-evaluation forms, submission of the abstract(s), confirmation of the attendance in individual session with the instructors from the University of Toronto Health Sciences Writing Centre before the oral presentation(s), and the confirmation of the poster presentation(s) at the Faculty of Dentistry Research Day and finally the chairing of sessions(s)

A grade of credit is assigned on satisfactory completion of all requirements. M.Sc. students register in DEN1001Y and Ph.D. student register in DEN1100Y

Note that the 3-minute thesis participation is not included in the evaluation.

L. BOZEC

DEN1010F Research Ethics

This course aims to highlight ethical values and regulations in different topics that are research-related: scientific writing, confidentiality agreements, students mentoring, research with humans, animals and biological samples, etc. The course involves participation in a seminar and the fulfillment of an online course offered by the Tri-council Funding Agencies of Canada. The same seminar will be offered in two different dates and attendance in one of the sessions is mandatory. Additionally, proof of completion of the online tutorial course “Tri-Council Policy Statement 2 – Tutorial Course on Research Ethics” is required. This is a credit, non-credit course.

G.M. DE SOUZA

DEN1014S Clinical Epidemiology and Evidence-Based Care

Clinical Epidemiology and Evidence-Based Care is a core course in the Faculty of Dentistry. Successful completion of this course is one of the program requirements for the dental graduates seeking advanced training in a clinical specialty. This course will demonstrate the scientific basis for clinical decision-making in prognosis, causation, diagnosis and therapy following the principles of evidence-based health care. Examples from the dental literature are used to illustrate the concepts and their practical application. The specific objectives of the course are: 1) to introduce principles of epidemiology as applied to clinical research; 2) to provide Clinical Specialty Graduate students with the fundamental scientific skills in clinical epidemiology to enable them to practice evidence-based dental care; 3) to provide the students with skills in answering questions using biomedical literature; 4) to provide students with the skills needed to critically appraise a biomedical research article.

A. AZARPAZHOOH, STAFF

DEN1015F Introduction to Biostatistics

The Introduction to Biostatistics course is designed to provide graduate dental students with an understanding of the statistical methods necessary for data analysis and literature interpretation. The course covers: the summary of quantitative and qualitative data; normal curve principles; the *t*-test, one-way, factorial and repeated-measures analysis of variance; chi-square tests and other non-parametric methods; simple regression and correlation; multiple regression and ANCOVA. Special topics, such as examiner agreement and sample size estimation, are also included. In addition, the course offers an introduction to logistic regression and survival analysis. The course includes both lecture and computer lab sessions. Students are taught to create and manipulate dental datasets and conduct statistical analysis of data using commonly available computer applications (e.g.,SPSS). References from the dental literature are used extensively during the course and material covered in lectures and labs is tailored whenever possible to the particular needs of the students' research projects.

H.P. LAWRENCE

DEN1022F Investigating Pathogenic Biofilms

This graduate course focuses on fundamental biology of microbial biofilms and how biofilm ecology impacts on the pathogenesis of infections. The course draws knowledge of microbiology, molecular biology, and functional genomics/proteomics. The course consists of seminar sessions that are intended to teach graduate students how to appreciate and evaluate biofilm research at the leading edge of this field. It is intended as a core course for graduate students whose specialty areas deal with biofilm-related diseases and for doctoral stream students from diverse SGS departments, whose research centers on bacterial adhesion, bacterial physiology, and molecular genetics.

C.M. LEVESQUE, STAFF

DEN1060F Oral Physiology: Sensory and Neuromuscular Functions

This is a lecture- and seminar- based course held for graduate and postgraduate students in the first-term of the academic year (2 hours per week). Attendees will gain an in-depth understanding of the current knowledge in the field of orofacial sensory and motor functions, and critical reading and summary of articles in this field as well as experience in preparing and delivering critiqued seminars. The following topics will be covered: a review of structural and functional neuroanatomy, europhysiology, neurochemistry, neurogenetics, psychophysics, and behavioral studies relevant to the orofacial region, garnered using rodent and human models, as related to the sensations of touch, temperature, taste and pain in the orofacial region. The course will also review unique peripheral and central neurophysiological mechanisms of somatosensory functions involving orofacial skin, mucosa, periodontium, tooth pulp, periosteum, tendons, muscles, temporomandibular joint, salivary glands, and taste buds. Also covered are motor aspects of the neurophysiology of the orofacial region, including muscle physiology and its relationship to reflex and voluntary orofacial motor activity manifesting as mastication, swallowing, facial expression, speech and sleep; as well as basic and clinical pathophysiological correlates of the above functions.

L. AVIVI-ARBER, P. CHERKAS, I. CIOFFI, J. LANCA, G. LAVIGNE, M. MOAYEDI,

DEN1070S Advances in Dental Materials Science

A lecture and seminar course with assigned reading which will review the developments occurring in the field of biomaterials, as they relate to clinical dentistry. The course material is presented in three modules; 1. Material Structure and Technologies, reviewing metals, polymeric, and ceramic biomaterials; 2. Biomaterial-Biological Interfaces, reviewing advances in the study of Material/Biological Interfaces as they relate to protein, enzyme and cell interactions with biomaterials, as well as investigations examining the physical and chemical interactions of biomaterials with whole tissues; and 3. Bacteria-Biomaterials and Host Interactions, including clinical Applications and associated biomaterial issues (including material testing, failures and drug delivery) in all the dental specialties. 4. Elements of Tissue Engineering, reviewing gingival tissue engineering, growth factors for tissue regeneration, and clinical application of bone engineering.

Students will be assessed throughout the term based on three criteria; (a) ability to identify clinical and/or scientific problems related to issues discussed in class; (b) to propose viable approaches to study the problems; and (c) to be able to convey these ideas using an analytical approach. (*Offered in alternate years – not available 2019-20*)

Y. FINER, STAFF

DEN1080Y Biology of Connective Tissues

A multidisciplinary approach is used to review and discuss the structure and function of connective tissue matrix in health and disease. The regulation of cells in connective tissues is considered in general, with significant emphasis devoted to periodontal tissues and bone. Most of the material is presented in seminars and in discussions of relevant publications. An important part of the course includes student presentations and the preparation of a grant application. The course is designed to accommodate primarily the interests of graduate students. (*Offered in alternate years – not available 2019-20*)

C.A.G. MCCULLOCH

DEN1081S Bone Interfacing Implants

Osseointegration is a central tenant of current dental therapy—yet, not only is the concept poorly understood, but the terminology and dogma surrounding this vitally important concept confuses even the most engaged practitioners. This course discusses the concept of osseointegration from the perspective of bone biology. Bone is one of the many connective tissues; and to understand bone biology one has to have an understanding of connective tissue structure and function. Of course, to truly understand the interface a multidisciplinary approach is necessary to take into account both the material and biological variables. To address this subject matter, the course is centered around every student being able to identify and critically evaluate each of the connective tissues. We do this by spending considerable time studying the microscopic structure of connective tissues; recording observations; and sharing information between the group. While this is happening a series of spontaneous tutorials, generated predominantly as a function of student inquiry, guides the group towards a unique understanding of the biology of, and logic that drives, osseointegration. It transpires that osseointegration is a wound healing phenomenon that reflects many natural phenomena where a new equilibrium is established following a disruption of homeostasis. Recently, as a result of work undertaken at the U of T, it has become possible, for the first time, to objectively compare the osseointegration rate and ultimate strength of bone anchorage of differing implant designs. Neither prior knowledge of connective tissue biology, nor material surface design, is required; but an inquiring mind is essential. (*Offered in alternate years – available 2019-20*).

J.E. DAVIES, STAFF

DEN1082H Biomaterials for Implant Treatment in Dentistry

This seminar course focuses on the composition, structure, properties and biological effects of intraosseous dental implants and other tissue interfacing implants. Such tissue interfacing implants will include biodegradable and non-degradable materials for guided tissue regeneration as well as materials used for hard and soft tissue augmentation. Methods used to process materials with reference to diffusion zones, sintering, films and coatings will be examined in combination with implant design considerations. Materials and design related advantages and disadvantages of abutment coupling systems are included. (*Offered in alternate years – not available in 2019-20*).

Y. FINER, STAFF

DEN1098F/S Reading Course in Oral Health Sciences

The purpose of this course is to offer instruction in specialized topics that are not part of regular graduate courses. It consists of assigned readings that are discussed in weekly meetings with the course director.

Interested students should approach the graduate staff member whom they would like to direct their reading course. Staff members who agree to direct a course should submit a course outline that includes a list of papers to be discussed and the grading method to be used, to the Associate Dean, Graduate Education. The reading course must conform to regulations established by the Department and the School of Graduate Studies (Available in the Student Services Office). The Faculty will normally only consider one reading course to complete your degree requirements. In exceptional circumstances this requirement may be waived.

GRADUATE COURSES OFFERED BY THE FACULTY TO MEET SPECIALITY DEGREE REQUIREMENTS

DEN1002S Oral Pathology

This is a weekly seminar course that reviews the pathology of oral soft and hard tissues, to prepare graduate students in various Dental Specialty Programs for specialty practice. Students are expected to participate in discussions of the pathology underlying broad categories of disease, for example, infections, developmental defects, reactive hyperplasia, benign and malignant tumors, and to use this understanding to develop rational schemes for differential diagnosis and treatment. Students will also learn about recent advances in oral and surgical pathology, including their potential application to diagnosis and patient management.

I. LEONG, STAFF

DEN1003F Preventive Dentistry

This course uses a seminar format to discuss and develop critical thinking among graduate students in regards to the aetiology, risk assessment, and prevention of oral diseases and conditions. Preventive dentistry aims to maintain and improve the oral health status of individuals and populations. The typical image of preventive dentistry is to prevent dental caries in a patient. However, prevention of dental caries at the individual level only represents one part of preventive dentistry. Preventive dentistry integrates primordial, primary, secondary, tertiary, and quaternary prevention, along with considerations at the individual and population level, including the oral-systemic health link, and involvement of other health and social service providers in the prevention of all oral diseases and conditions. The course is

available to all graduate students at the faculty.

C. QUIÑONEZ, STAFF

DEN1006Y Dental Public Health Seminars

This course uses a seminar format to survey the discipline of dental public health. This includes the determinants of health, primary health care, oral health care systems, insurance, health economics, health planning and evaluation, and ethical issues in dentistry. The course is available for all graduate students at the faculty.

C. QUIÑONEZ, STAFF

DEN1007F Oral and Maxillofacial Radiology

This lecture and seminar course will review fundamental principles of radiobiology and radiation protection, and the application of conventional and advanced imaging modalities in the interpretation of abnormalities of the oral and maxillofacial region that may be encountered in the practice of the dental specialties.

E. W. N LAM, STAFF

DEN1008S Cone Beam CT Imaging

This lecture and seminar course builds on the image interpretation concepts developed in DEN 1007F (Oral and Maxillofacial Radiology); a graduate level course for students enrolled in one of the M.Sc./dental specialty programs. This new course specifically emphasizes the applications of three-dimensional imaging in the form of limited/small (≤ 8 cm) field-of-view cone beam computed tomography in the dental specialties.

Successful completion of this course will enable the student to make application to the Royal College of Dental Surgeons of Ontario for a permit to own and/or operate a limited/small field-of-view cone beam CT system on graduation. Prerequisite: DEN 1007F.

E. W. N. LAM, STAFF

DEN1011Y Advanced Seminars in Oral Pathology

This course is designed for the graduate students in Oral Pathology. In addition to the review of all cases received in the Oral Pathology Diagnostic Service, it consists of formal and informal seminars on current topics in general pathology, oral histopathology and clinical oral pathology. The Oral Pathology course (DEN1002S) must be taken either before or simultaneously with this course.

G. BRADLEY, STAFF

DEN1012Y Oral Medicine

This course is conducted in various relevant departments of the University affiliated teaching hospitals. Experience is obtained in the investigation, diagnosis and management of a wide range of diseases and disorders of the oral and craniofacial structures including oral mucosal and salivary gland

diseases/disorders and orofacial pain/dysfunctions. As well, students gain experience in the management of patients with complicating medical conditions.

I. LEONG, STAFF

DEN1013Y Oral Surgical Pathology

The course is organized as a series of clinical-pathological conferences and covers all forms of disease of the mouth. A case-based approach is used for teaching and learning. Emphasis is placed on synthesizing clinical, radiographic and histological data for a comprehensive evaluation of the case being discussed. The material for study is derived from surgical pathology cases from the Oral Pathology Diagnostic Service and the major teaching hospitals. Current cases of interest are studied and in addition the surgical pathology of all oral disease is covered in a systematic manner.

The course is divided into two sections. The first part is the clinical-pathological component held weekly. Students have the opportunity to review the case histories and virtual microscopic slides of the cases to be presented in the upcoming session, so they can be prepared to discuss the differential diagnosis and treatment, as well as controversies in treatment and topics that require further clinical research. The second part consists of a rotation for individual students to Oral Pathology, to be organized with the head of the respective graduate programs. The rotation provides an immersion in Oral Pathology that is appropriate for the student's future specialty practice.

G. BRADLEY, STAFF

DEN1016S Occlusion: Function and Dysfunction

This course integrates current knowledge of dental occlusion by presenting a multidisciplinary array of lectures delivered by experts in prosthodontics, periodontics, orthodontics, pedodontics, oral and maxillofacial surgery, dental materials, oral neurophysiology, speech pathology and sleep bruxism. It also utilizes topical reading and evidence-based discussion seminars led by course participants and critical appraisal assignments of recent peer-reviewed publications. The aims of this course are to demonstrate that multidisciplinary clinical approaches that take into consideration developmental, biological, neurophysiological, psychological and biomechanical factors are indispensable in the diagnosis, management and prevention of a dysfunctional dental occlusion. This course is targeted principally at postgraduate candidates in clinical dental specialties. Participants are required to have a dental degree. Successful completion of the course is based on mandatory attendance and in all seminars, active, and evaluation of a topic presentation, written assignment, short quizzes and participation and demonstration of critical appraisal skills in the seminars and the written assignments. *(Offered in alternate years – not available 2019-20).*

L. AVIVI-ARBER, STAFF

DEN1017S Temporomandibular Disorders

The objective of this course is to integrate the latest evidence in basic and clinical sciences related to temporomandibular disorders (TMD), in order to improve knowledge on differential diagnosis, TMD etiology, mechanisms and evidence-based management. The course will also address the socioeconomic burden of acute and chronic pain, in addition to their effects on the patient's quality of life. The topics will be presented by various scholars, dental and medical specialists. *(Offered in alternate years –*

available 2019-20).

I. CIOFFI, STAFF

DEN1033Y Yr I; DEN1034Y Yr II; and DEN1035Y Yr III - Periodontology - Seminars and Clinics

This ongoing course represents a three-year major program consisting of educational experiences targeted directly at developing the knowledge and clinical skill required of a specialist in periodontics, including many aspects not covered in other required courses. Seminars will include Conscious Sedation, Periodontics-Prosthodontics Treatment Planning, Therapeutics, Clinical Photography, Practice Management, and Surgical Periodontics. Clinical rotations include Implant Prosthodontic Unit, Periodontal Consultation Service for severe and refractory diseases, and hospital rotations for Periodontal Care of Medically Compromised patients, oral medicine, and diagnosis and treatment of facial pain and temporomandibular disorders. Residents will also be exposed to training in single drug I.V. sedation techniques, and other conscious sedation methods. There will be seminars in oral medicine and in the interrelationships of Orthodontics, Endodontics and Prosthodontics with Periodontology. (See Clinical Conferences).

J. LAI, V. MENDES, STAFF

DEN1036Y Periodontology - Literature Review in Periodontology Yr I & II

The literature review program combines required reading and review of discussion points in order to gain an understanding of the classic and current literature in the field of periodontology. Each week, the student is presented with a list of articles that cover a given subject in its entirety. The student is expected over the course of the year to have read and be familiar with each article. Articles are chosen due to their “classic” standing, or because they highlight a given learning objective. This allows to student to focus on these articles for the weekly discussions in our seminar series. Along with a “classic” literature review, seminars are designated for current literature review in the most recent journals.

M. GOLDBERG, STAFF

DEN1037Y Clinical Case Presentations - Yrs II & III

Residents present their clinical cases and are expected to defend the treatment provided. All aspects of the presentation will be covered which includes the medical history, clinical and radiographic interpretation, diagnosis, etiology, prognosis, treatment planning, therapy and periodontal maintenance.

V. MENDES, STAFF

DEN1038Y - Biomaterials & Implant/Reconstructive Dentistry - Yrs II & III

The didactic portion involves seminars that focus on the surgical and restorative aspects of implant therapy, biomaterials, tissue biology and tissue engineering. The clinical aspect is primarily related to treatment planning and techniques in advanced implant reconstructive and plastics such as the surgical principles and techniques on various implant systems, ridge augmentation and site development procedures.

J. LAI, V. MENDES, STAFF

DEN1039Y Periodontology - Principles and Practice of – Yrs I, II, and III

These weekly seminars review the clinical cases that are being performed by the residents. The treatment plan, appropriate therapy and relevant periodontal literature are discussed. Residents will also present selected topics on various aspects related to periodontal therapy.

V. MENDES, STAFF

DEN1041Y Prosthodontics I – Prosthodontic Treatment Planning and Case Presentations

Patients demonstrate a wide range of phenotypes and treatment needs following congenital conditions or diseases that have affected the orofacial complex. Consequently, comprehensive treatment plans are required for all patients in need of complex rehabilitative care. The focus of these weekly sessions are patient presentations given by the residents, with an expectation that treatment plans will be articulated in the context of evidence-based and patient-mediated concerns. Presentations by residents in the beginning of their training focus on chief complaint, assessment, diagnosis and treatment planning. Presentations by residents further along in their training focus on care delivery and outcome assessment.

D. CHVARTSZAID, STAFF

DEN1042Y Prosthodontics II – Key Concepts in Prosthodontics and Laboratory Management

The seminar course will cover key concepts, methods and materials in restorative dentistry, prosthodontics, and laboratory management and is intended to prepare students for patient care. *(offered in alternate years – available 2019-20)*

D. CHVARTSZAID, STAFF

DEN1043Y Prosthodontics III - Patients with the Partially Edentulous Mouth and Advanced Prosthodontic Care

This course will consist of seminars, including critical appraisal of the relevant literature. The course will enable the student to become familiar with the various materials and methods for appraising the partially edentulous patient. Diagnosis, treatment planning, and the different fixed and removable or implant supported methods for patient treatment are analyzed and discussed. Close cooperation with specialists in other clinical fields and dental technicians in relation to treatment planning is encouraged. The importance of prosthodontic interventions in the adolescent patient will be given particular attention. Students will be expected to develop the judgment and skills required to manage complex partial edentulism as a consequence of congenital orofacial anomalies, orofacial trauma, or oncologic surgery. The specific topics in this course vary from year to year.

D. CHVARTSZAID, STAFF

DEN1044Y Prosthodontics IV - Prosthodontic Current Literature

This seminar course reviews and critically appraises the current scientific literature pertaining to prosthodontics. This course is designed to help the students develop the necessary skill for critical reading

of the scientific literature, while also acquiring knowledge of the most current advances in the diverse areas of research in prosthodontics and related areas. During weekly seminars, the students select, present and defend what they have identified as the best research papers in the contemporary literature relevant to prosthodontic care.

D. CHVARTSZAID, L. AVIVI-ARBER, STAFF

DEN1045Y Prosthodontics V – Critical Appraisal of the Literature in Prosthodontics and Surgery

This course aims to provide the student with the understanding of scientific literature, biologic basis and clinical approaches in Prosthodontics and Surgery, including surgical anatomy, surgical management and surgical complications.

D. CHVARTSZAID, M. LIN, STAFF

DEN1046Y Prosthodontics VI – Clinical Prosthodontics

Extensive clinical training is provided over three years in the Graduate Prosthodontics clinic. Treatments are done in close cooperation with specialists in other clinical specialties and dental technicians in relation to treatment planning and patient management. On-site and off-site clinical rotations supplement core clinical training. On-site rotation to the Implant Prosthodontic Unit (IPU) focuses on implant-related surgical training. Off-site rotations focus on management of patients with specific needs. Rotation to the Princess Margaret Hospital focuses on Maxillofacial Prosthodontics and oncologic management. Rotation to the Holland Bloorview Kids Rehabilitation Hospital focuses on management of Prosthodontic needs in a paediatric population.

D. CHVARTSZAID, STAFF

DEN1051Y Oral Epidemiology

The purpose of this course is to present the principles and methods of epidemiology and their application in the study of oral and craniofacial diseases. Special emphasis is given to observational and experimental research designs and to the techniques of dental survey research. The course includes a detailed examination of clinical measures of oral health status and socio-dental indicators. Students have the opportunity to apply the skills taught to the preparation of a comprehensive research proposal. *(Not offered 2019-20)*

H.P. LAWRENCE

DEN1052Y General Anaesthesia for Medical Procedures – Pediatric

This program involves a rotation at the Hospital for Sick Children under the direction of the Department of Anaesthesia. The objective of this course is to learn the principles and application of general anaesthesia to children in the hospital setting. This is accomplished by gaining direct experience in all aspects of the administration of general anaesthesia for pediatric medical procedures.

H. KESTENBERG, C. YARASCAVITCH, M. CRAWFORD, M. LAM, STAFF, DEPARTMENT OF ANAESTHESIA, HOSPITAL FOR SICK CHILDREN

DEN1055F Basic Principles of Dental Anaesthesia

This course is provided to students in the fall of their first year as a self-directed reading course. Readings will be assigned at the beginning of the course and then their knowledge of the content evaluated weekly. The readings will be based on specific chapters in the texts, covering the subjects of anatomy, respiratory physiology, cardiovascular physiology, anaesthetic machines and monitors. Evaluation will consist of weekly oral assessments and one written assignment at the end of the course. This course will take place weekly for one term in the fall of first year.

H. KESTENBERG, C. YARASCAVITCH

DEN1056Y Basic Concepts in Clinical Medicine

The objective of this course is to provide dental anaesthesia and Oral Medicine residents with the clinical knowledge and skills of physical evaluation and medical risk assessment. This will build on the academic basis of the course “Foundations of Medicine as applied to Dental Anaesthesia”. It will consist of a 3-hour per week clinical session for the first year in the program.

N. TENN-LYN

DEN1061H Research Practicum

The research practicum aims to give students hands-on experience of one or more components of the research process. This can include analyzing an existing data set, undertaking a systematic review and/or meta-analysis or a review article. This type of experience will give students the opportunity to use skills in, and an appreciation of, such matters as literature searching, hypothesis setting, experimental design, methodological limitations, laboratory practice, and writing a paper for publication. Consequently, it provides a more limited exposure to the research process than research leading to a M.Sc. level thesis. The requirements for this course can be met by undertaking a research project or an essay in the form of a review article. In either case, the required outcome is a paper in a format suitable for publication. The research practicum will be undertaken with the assistance of an appropriate supervisor and examined by a committee comprised of three faculty members, at least one of whom is from the student’s speciality.

STAFF

DEN1062S Pharmacology of Dental Therapeutics

The course is aimed at providing an up to date review of the pharmacological principles of therapeutic management of clinical conditions relevant to the practice of dentistry. This course emphasizes the need to apply a multidisciplinary approach to systemic pathologies and relevance for oral health. Topics include pain management, antimicrobials, respiratory, cardiovascular, central nervous system, anticoagulants, immunocompromised patients, antineoplastics and oral cancer and use of computer drug databases in patient management. Students have an opportunity to work in small groups and present clinical cases of patients with complex systemic and oral pathologies.

J. LANÇA, STAFF

DEN1063Y Practicum in Dental Public Health

A student will normally be assigned for 14 weeks to an agency that provides dental public health services or is engaged in dental public health-related issues. The purpose is to learn, by observation and participation, methods of management used by the agency and to conduct a project of use to the agency. A dental public health specialist or other leader from the agency will supervise the student with periodic contact from director of the program.

C. QUIÑONEZ, STAFF

DEN1064S Management Principles in Canadian Dental Health Organizations

This course will develop skills in analysis and decision-making among students to enable them to manage organizations, which provide or fund dental education or care services. Students will be expected to participate in all sessions from the basis of selected readings. In addition, students will have to write and present an analysis in dental services management. Topics to be covered include: legislation, case studies in dental organizations, managing human resources, planning, promoting quality, information systems, and program evaluation. The course is available for all graduate students at the faculty.

F. RASHID, P. SHARMA, STAFF

DEN1071H Medical Anaesthesia Seminars I

These seminars are conducted by members of the Department of Anaesthesia, Faculty of Medicine. Topics include equipment and monitors, patient safety, acute pain, regional anaesthesia, perioperative medicine and chronic pain. This course is taken in year one. *This is a credit/ non-credit based course.*

H. KESTENBERG, C. YARASCAVITCH, L. BAHREY, DEPT. OF ANAESTHESIA, FACULTY OF MEDICINE

DEN1072H Medical Anaesthesia Seminars II

These seminars are conducted by members of the Department of Anaesthesia, Faculty of Medicine. Topics include include pediatric anaesthesia, cardiovascular and respiratory system physiology and anaesthesia, trauma and resuscitation. This course is taken in year two. *This is a credit/ non-credit based course.*

H. KESTENBERG, C. YARASCAVITCH, L. BAHREY, DEPT. OF ANAESTHESIA, FACULTY OF MEDICINE

DEN1073Y Dental Anaesthesia Graduate Seminars

This weekly course consists of both Faculty-led and student-led presentations and covers a wide range of topics of relevance to dental anaesthesia. Residents receive introductory lessons in pharmacology, patient assessment and consultation, and ECG interpretation from Faculty. The remainder of presentations are given by residents, consisting of topics related to the management of anesthetic emergencies and anaesthesia for common systemic diseases, with facilitation and feedback from Faculty.

H. KESTENBERG, M. WONG, A. OUANOUNOU, C. YARASCAVITCH, STAFF

DEN1074Y Foundations of Medicine as Applied to Dental Anaesthesia

The objective of this course is to provide the academic basis of clinical medicine for residents in dental anaesthesia. The content will include: interpretation of complete medical histories; techniques of physical examination; interpretation of physical evaluation results; understanding the implications of systemic disease, in particular those of the cardiovascular, respiratory and endocrine systems; understanding the indications for and interpretations of laboratory studies and other techniques used in physical diagnosis and preoperative evaluation.

The course will consist of 3 hours of seminars per week, divided into 2 weekly sessions, for the fall term of the first year in the program and combined into a single weekly session in the winter term of the first year of the program.

N. TENN-LYN

DEN1075Y General Anaesthesia for Dental Procedures – Pediatric

This course involves clinical application of general anaesthesia for pediatric dental patients. Senior residents gain experience in administering general anaesthetics for children in an outpatient setting, using both intubated and non-intubated techniques. The clinics take place in the anaesthesia facility at the Faculty of Dentistry, seven half-days per week, with an additional half-day per week in pre-operative assessment consultations. Each resident will spend 6 months on this clinical assignment. This course is taken in year three.

H. KESTENBERG, M. WONG, C. YARASCAVITCH, STAFF

DEN1076H General Anaesthesia for Medical Procedures – Adult I

This program involves rotations for the dental anaesthesia resident under the direction of the Department of Anaesthesia, Toronto East General Hospital. The objective of this course is to learn the principles and application of general anaesthesia to adults in the hospital setting. This is accomplished by gaining direct experience in all aspects of the administration of general anaesthesia for medical procedures. This course is taken in year one.

H. KESTENBERG, C. YARASCAVITCH, S. KAPOOR, J. KULCHYK, STAFF, DEPARTMENT OF ANAESTHESIA, TORONTO EAST GENERAL HOSPITAL

DEN1077H General Anaesthesia for Medical Procedures – Adult II

This program involves rotations for the dental anaesthesia resident under the direction of the Department of Anaesthesia, Toronto East General Hospital. The objective of this course is to further advance the principles and application of general anaesthesia to adults in the hospital setting. This is accomplished by direct experience in all aspects of the administration of general anaesthesia for medical procedures. This course is taken in year two or three.

H. KESTENBERG, C. YARASCAVITCH, S. KAPOOR, J. KULCHYK, STAFF, DEPARTMENT OF ANAESTHESIA, TORONTO EAST GENERAL HOSPITAL

DEN1078H General Anaesthesia for Dental Procedures – Adult I

This course involves clinical application of all modalities of sedation and anaesthesia for dental patients, with the focus on deep sedation and general anaesthesia. First year residents gain experience in the full range of sedation and non-intubated anaesthetic techniques for adults. Clinics take place in the anaesthesia facility at the Faculty of Dentistry, five half-days per week. Residents also spend one day per week administering deep sedation to medically complex patients with mental or physical challenges in the Department of Dentistry at Sunnybrook Health Science Centre. Emphasis is on skill acquisition.

H. KESTENBERG, C. YARASCAVITCH, STAFF

DEN1079H General Anaesthesia for Dental Procedures– Adult II

This course involves clinical application of all modalities of sedation and anaesthesia for dental patients, with the focus on deep sedation and general anaesthesia. Second & third year residents gain experience in the full range of sedation and non-intubated anaesthetic techniques for adults. Clinics take place in the anaesthesia facility at the Faculty of Dentistry, five half-days per week. Residents also spend one day per week administering deep sedation to medically complex patients with mental or physical challenges in the Department of Dentistry at Sunnybrook Health Science Centre. Emphasis is on skill acquisition.

H. KESTENBERG, C. YARASCAVITCH, STAFF

DEN1083Y Experiences in Clinical Medicine

The objective of this course is to provide clinical experience in medicine for residents in dental anaesthesia. Teaching is provided by members of the Department of Internal Medicine, Sunnybrook Health Sciences Centre. Emphasis is on the application of knowledge and clinical skills in a variety of patient care contexts. This course is taken in year two.

H. KESTENBERG, C. YARASCAVITCH, L. STROUD, DEPT. OF INTERNAL MEDICINE, SUNNYBROOK HEALTH SCIENCES

DEN1084H; DEN 1085H; DEN1086H Experiences in Clinical Teaching Yrs I, II, III

The objective of this course is to strengthen understanding of instructional pedagogy and teaching skills. Developed from the *Centre for Faculty Development Teaching and Learning Collaboration* workshops, this course consists of small group instruction and practical teaching assignments. Residents participate in workshops on best educational practices for learning in clinical contexts to prepare themselves for instructor roles.

Mandatory teaching assignments consist of a minimum of 10 half-days per year in each of the three years of the program. Seminar facilitation and clinical supervision is carried out in the Faculty clinics for: second year undergraduate dental students local anesthetic techniques; third year dental students and dentists enrolled in continuing education for nitrous oxide and oxygen sedation techniques; fourth year dental student medical emergency seminars and simulations; peer teaching for dental anaesthesia residents. Progress is measured by a portfolio of personal reflections and objective evaluations.

H. KESTENBERG, C. YARASCAVITCH, STAFF

DEN1087Y; DEN1088Y; DEN1089Y Fundamentals of Dental Anaesthesia Yrs I; II and III

This course consists of three foundational components: Journal Review, Clinical Rounds, and Oral Examination. On a weekly basis, residents rotate in a leadership role providing formal presentations to peers and faculty. Literature applicable to the field of dental anesthesia is reviewed to exercise critical appraisal skills and inform dental anaesthesia practice. Clinical patient cases are presented to encourage reflection on practice and quality assurance in patient care. On a bi-annual basis in December and June, residents complete an oral examination in dental anaesthesia and related topics in order to assess progress and prepare for board certification.

H. KESTENBERG, C. YARASCAVITCH, P. COPP, STAFF

DEN1090H Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures

The objective of this course is to provide sufficient teaching and experience in inhalational and oral minimal and moderate sedation for clinical qualification by jurisdictional regulatory authorities. This course consists of both didactic and clinical components. A passing grade on a written examination is required in order to successfully complete the course.. This course is taken by graduate dental specialty students at the discretion of their program.

P. NKANSAH

DEN1091Y Parenteral Moderate Sedation for Dental Procedures

The objective of this course is to provide sufficient teaching and experience in parenteral moderate sedation for clinical qualification by jurisdictional regulatory authorities. This course consists of both didactic and patient care components. In accordance with licensing authorities, a pass score on written examination is needed to successfully complete the course. A minimum of 20 supervised clinical cases is required in order to achieve qualification for registration with licensing authorities. This course is taken by graduate dental specialty students at the discretion of their program.

P. NKANSAH

DEN1094Y Advanced Oral and Maxillofacial Radiology I

The objective of this Year 1 course is directed toward the interpretation and diagnosis of diseases of the maxillofacial region, and to stimulate the critical analysis of the application of diagnostic imaging for this purpose. The course consists of seminars and radiologic clinics that are composed of the following components: seminars in advanced radiologic interpretation of abnormalities and diseases of the maxillofacial region; a radiologic clinic and radiologic rounds directed to the investigation of abnormalities and diseases of the maxillofacial region; seminars in the mechanisms of disease with correlations to their appearances on diagnostic images; and review of the current literature in oral and maxillofacial radiology. Clinical training includes practical experiences with the applications of extraoral and intraoral radiology, sialography, computed tomography and magnetic resonance imaging to the diagnostic process.

CO-REQUISITE – DEN1007F

E. W. N. LAM, STAFF

DEN1095Y Advanced Oral and Maxillofacial Radiology II

This course builds on the foundations developed in DEN1094Y. This Year 2 course consists of seminars and radiologic clinics that are composed of the following components: seminars in advanced radiologic interpretation of abnormalities and diseases of the maxillofacial region; a radiologic clinic and radiologic rounds directed to the investigation of abnormalities and diseases of the maxillofacial region; seminars in the mechanisms of disease with correlations to their appearances on diagnostic images; and review of the current literature in oral and maxillofacial radiology. Clinical training includes practical experiences with the applications of extraoral and intraoral radiology, sialography, computed tomography and magnetic resonance imaging to the diagnostic process.

PRE-REQUISITE – DEN1094Y

E. W. N. LAM, STAFF

DEN1096Y Advanced Oral and Maxillofacial Radiology III

This course builds on the foundations developed in DEN1094Y and DEN1095Y. This Year 3 course consists of seminars and radiologic clinics that are composed of the following components: seminars in advanced radiologic interpretation of abnormalities and diseases of the maxillofacial region; a radiologic clinic and radiologic rounds directed to the investigation of abnormalities and diseases of the maxillofacial region; seminars in the mechanisms of disease with correlations to their appearances on diagnostic images; and review of the current literature in oral and maxillofacial radiology. Clinical training includes practical experiences with the applications of extraoral and intraoral radiology, sialography, computed tomography and magnetic resonance imaging to the diagnostic process.

PRE-REQUISITE – DEN1095Y

E. W. N. LAM, STAFF

DEN2001Y Orthodontics 1 – Advanced Orthodontic Diagnosis and Treatment Planning

First Year Residents

Various methods of appraising dentofacial deformities and growth trends are discussed. The diagnosis and treatment planning of surgical cases and temporomandibular joint problems are included, as is an introduction to biomechanics. Also included is a concentrated laboratory technique course as preparation for clinical practice. The course is limited to orthodontics graduate students.

S. SURI, STAFF

DEN2002Y Orthodontics 2 – Biomechanics, Orthodontic Technique and Practice Administration

Second Year Residents

An analysis of standard orthodontic appliances discussing the theory, indications and contraindications of each is carried out. Extensive technique and seminar courses are presented and include practice administration considerations. This instruction continues and develops over two years with the goal being to expand the student's expertise in advanced orthodontic diagnosis and treatment planning that was introduced in Orthodontics 1. A multidisciplinary approach to the various orthodontic mechanisms is stressed. The course is limited to orthodontics graduate students.

S. SURI, STAFF

DEN2003Y Orthodontics 3 – Orthodontic Technique and Clinical Practice

Third Year Residents

This is a concentrated clinical course, extending over three years, involving patient treatment under the supervision of staff. This includes diagnosis and treatment planning as well as actual clinical treatment of assigned cases. The predominant orthodontic techniques are stressed including surgical orthodontic treatment, adult orthodontics and functional appliance therapy. Throughout the course, the knowledge and theory discussed in Orthodontics 1 and 2 will be thoroughly applied and expanded upon. The course is limited to orthodontics graduate students.

S. SURI, STAFF

DEN2004Y Orthodontics 4 – Interceptive Orthodontics

First and third Year Residents

Students are required to teach, under the supervision of staff, in the undergraduate orthodontic program in order to familiarize themselves further with the diagnosis and management methods pertinent to the field of interceptive orthodontics. They are expected to prepare and participate in basic diagnostic seminars, technical instruction and seminar sessions.

S. SURI, STAFF

DEN2005Y Surgical Orthodontics

This course is a collaborative educational component of the Oral and Maxillofacial Surgery and Orthodontic programs. It exposes the OMFS and Orthodontic residents to a comprehensive, detailed, and innovative clinic. The Centre for Corrective Jaw Surgery at the University of Toronto is unique in Canada and is a weekly clinic held in the orthodontic clinic with patient visits. Orthodontic follow up, presurgical orthognathic surgery preparation and post-operative aftercare are all provided in this clinic. Operative orthognathic surgery (assisted by orthodontic residents) takes place at Mount Sinai or Humber River hospitals. Milestones in orthognathic surgery and in surgical orthodontics are met through clinic, seminar and operating room interactions. Supported by industry grants, special access allows the residents to have the full experience of digital planning: virtual surgical preparation, surgical guide fabrication, surgical orthodontic diagnosis and treatment. The course is further enhanced by 24 case-based seminars covering the full scope of facial deformity correction. These seminars are jointly presented by OMFS and Orthodontic teams, staff, and guest lecturers.

A. METAXAS, M. CAMINITI (staff: B. Venditelli, A. Shojaei, F. Kienle)

DEN2006Y Facial Growth and Facial Analysis

A seminar course presenting the cephalometric analysis developed using data from The Burlington Growth & Research Centre. An in-depth study of its clinical application in the understanding of facial growth patterns is presented.

S. SURI, M. PATRICIAN

DEN2007Y Craniofacial Anomalies

A course of seminars extending over two terms in which congenital anomalies of the craniofacial complex are discussed with reference to etiology, facial growth and development and treatment. The multidisciplinary team approach to treatment is emphasized.

Clinical experience is derived through the facilities of the Hospital for Sick Children, in the management of problems associated with anomalies such as cleft palate. (*Offered in alternate years – available 2019-20*)

S. SURI, STAFF

DEN2008Y Craniofacial Anatomy and Osteology

A guided, self-study basic course in cranial osteology, embryology, comparative vertebrate anatomy, and radiology of the bones of the head.

W.J. JENKINS, B. LIEBGOTT, E. LAM

DEN2009H Classic Theories of Craniofacial Growth

A guided reading seminar course covering classical theories of craniofacial growth. References are cited refuting or supporting these theories.

S. SURI, W. WILSON

DEN2010H Tissue Reaction to Orthodontic and Orthopedic Forces

The objective of the course is to investigate the reaction of tissues to forces created by orthodontic and functional appliances. The areas to be covered are: a) Reaction of the periodontal ligament, cortical bone, attached and free gingiva, the root and the pulp to orthodontic tooth movement with heavy and light forces; b) Muscle reaction to orthodontic and orthopedic forces; c) The condyle.

Students are required to write a term paper on a particular topic and to present this paper to the class. Students are required to plan an original project in conjunction with their term paper topic.

S. SURI, G. ALTUNA

DEN2011Y Craniofacial Morphology and Development

A seminar course that covers morphological variations, and their methods of detection and treatment from the historic and current perspective. Topics of great significance and relevance to the specialty that require a focused synthesis of the literature are included.

S. SURI

DEN3001Y Oral Surgery 1 – The Physiological Basis of Disease

This course provides the Oral and Maxillofacial Surgery resident with the fundamental medical knowledge. It covers, in particular, physical diagnosis, medicine and physiology. It is required for patient

care and management, especially in the pre and post-operative phases, and for general consults in a hospital setting. The course also provides an assessment of current literature and clinical research. The relationship of the basic sciences (physiology, pharmacology, biochemistry and microbiology) to disease processes through a systematic discipline, is emphasized.

M. CAMINITI, N. KATSIKERIS, STAFF

DEN3002Y Oral Surgery 2 – Principles and Practice of Oral and Maxillofacial Surgery

The didactic component of this course provides the Oral and Maxillofacial Surgery resident with a complete understanding of the diagnosis and surgical management of diseases of the head, face, and neck regions. Seminar presentations use a case-based format. Residents participate in all areas of the clinical practice of the Oral and Maxillofacial Surgery. Sound judgment is developed through the formulation of differential diagnoses, rational treatment options and participation in the surgical procedures. In Year I, the clinical component is primarily related to the care of inpatients and an introduction to simple operative procedures. It also provides a thorough and rigorous introduction to surgery and surgical principles in general. In years III and IV, advanced clinical practice and increasing levels of responsibility for patient care are demanded which culminate in a high level of surgical skill and knowledge.

M. CAMINITI, K. CUDDY, STAFF

Clinical Methods

The Clinical Methods course will review the fundamentals of physical examination and diagnosis. It will focus mainly on the skills required for a comprehensive examination of the patient. This includes interviewing, physical diagnosis, radiographic interpretation, as well as the investigation and interpretation of laboratory studies. Students will have the opportunity to observe and question their teacher-practitioners in order to learn the more intangible aspects of practice – professional attitudes, philosophy, and the ethical standards. Off-service rotations include a year of immersion in other medical subspecialties including emergency medicine, general surgery, anaesthesia and internal medicine.

M. CAMINITI, STAFF

DEN3003Y Oral Surgery 3– Evidence-based Literature Reviews in Oral and Maxillofacial Surgery

The practice of evidence-based medicine requires the ability to define a problem and to assess, summarize and apply the information derived from current literature to daily clinical care. This course introduces the concepts of evidence-based practice and provides the Oral and Maxillofacial Surgery resident with practice in critical appraisal of the current literature. A review of selected journals on a regular basis also ensures the resident's familiarity with contemporary practice.

M. CAMINITI, STAFF

DEN3004Y Oral Surgery 4 – Applied Surgical Anatomy of the Head and Neck

This course is designed to teach anatomy for Oral and Maxillofacial Surgery. Particular attention is focused on the surgical approaches of the head, face, neck and calvarium. Techniques for harvesting

bone and development of local, regional and free flaps for reconstruction are reviewed. It explores 16 core surgical competencies in approaching the broad scope required for oral and maxillofacial surgeons. It is an extension of DEN 3005H with focus on surgical and technical skills acquisition.

M. CAMINITI, N. BLANAS, STAFF

DEN3005H Head and Neck Anatomy

The Division of Anatomy, Faculty of Medicine, together with the Faculty of Dentistry, offers a comprehensive head and neck anatomy course tailored for the specialties of Oral and Maxillofacial Surgery (OMFS) and Endodontics. The course will comprise four-week (8 hour) lecture series and prosection review, combined with an additional cadaver dissection component (32 hours) for residents of the OMFS program.

Students will have access to specially prepared material, which may be studied in the Division of Anatomy. Dissection manuals will be available for the laboratory activities. Instructors and staff will be available during the surgical dissection laboratories and on a consulting basis.

V. MENDES AND M. CAMINITI, STAFF

DEN4001Y Pediatric Dentistry 1- Theoretical Pediatric Dentistry

This seminar course is continuous throughout the program. Reading assignments and periodic seminar presentations are assigned. The majority of these seminars are presented by the Department of Pediatric Dentistry, but may be given by members of other departments to include subjects such as Advanced Periodontics, Practice Management, Pediatric Pharmacology, Dental Public Health, and Hospital Dentistry, Feeding Disorders, Speech Pathology, Prevention, Cariology, as it applies to Pediatric Dentistry. Includes formal case presentations by the graduate students that must be prepared to the standards set by the American Board of Pediatric Dentistry.

K. CAMPBELL, H. NAINAR, R. MACMILLAN, G. GARISTO, J. WILES, M. CASAS, G. KULKARNI

DEN4002Y Pediatric Dentistry 2 - Journal Review

A series of discussions between faculty and graduate students, with active student participation to review critically current publications in journals related to pediatric dentistry.

K. CAMPBELL, H. NAINAR

DEN4003Y Pediatric Dentistry 3 - Facial & Dental Growth and Development in Pediatric Dentistry

This seminar course provides a comprehensive review of growth and development of the craniofacial complex, including an examination of the functional matrix theory as it applies to craniofacial growth. Several theories related to “how the head grows” are discussed. The principles of bone development in the craniofacial region are reviewed in great detail. The student will gain understanding of the biology of soft and hard tissues in the cranium. In addition, an overview of head & neck anatomy and dental

development is provided. Included is a module in genetics.

K. CAMPBELL, D. CHANDRA, S. GONG

DEN4004H Pediatric Dentistry 4 - Child Behaviour Management

This is a seminar program in which students will review critically and discuss literature in principles of human behavior, developmental psychology, ethnicity and human behavior, and communication as it applies in the pediatric “triangle” concept. Various non-pharmacologic methods of guiding, managing and shaping behavior in the pediatric dental office will be discussed, from theoretical and practical perspectives. Some sessions will involve either case-based approaches to highlight behavioral aspects of dentistry or a review of videotapes of dentists, including graduate students in this course, interacting with patients.

K. CAMPBELL, M. PARK

DEN4005Y Pediatric Dentistry 5 - Clinical Pediatric Dentistry

This is a continuous three-year course. A preclinical simulation course in basic pediatric restorative dentistry is given in the orientation period of the first year. Following successful completion of simulation exercises, the graduate student assumes his/her clinical assignments at various sites. These encompass all clinical aspects related to the practice of the specialty of Pediatric Dentistry. The examination, diagnosis and treatment of the child patient and patients with special health care needs are supervised in the Graduate Pediatric Dentistry Clinic at the University of Toronto and in the Department of Pediatric Dentistry at the Hospital for Sick Children. The students will also be assigned to the Surgicentre at the Faculty of Dentistry for the comprehensive treatment of children using oral moderate sedation, non-intubated and intubated general anesthesia. Additional clinical assignments include City of Toronto Public Health Clinic, Mt. Sinai Hospital, and mandatory rotations to Weeneebayko General Hospital in Moose Factory, Ontario. All graduate students participate in after-hours emergency call at the Hospital for Sick Children in their core program.

There is a mandatory two week anesthesia rotation at SickKids and graduate students have the choice of two additional 1 week elective rotations may include any of the following: plastics/craniofacial surgery, cardiology, hematology, Holland Bloorview Kids Rehab Centre, among others.

K CAMPBELL AND STAFF PEDIATRIC DENTISTRY, UT. M. CASAS AND DENTAL STAFF, HOSPITAL FOR SICK CHILDREN

DEN4006Y Pediatric Dentistry 6 – Pediatric Oral Surgery

This course involves a series of presentations and reading assignments dealing with special issues in the pediatric oral and maxillofacial surgery patient. Topics include maxillofacial trauma, pediatric medical issues, odontogenic infections, TMJ disorders, tooth impactions, supernumerary teeth, ankylosed teeth, exposures, enucleations, cyst and tumors.

K. CAMPBELL, J. GARBEDIAN

DEN4007H Pediatric Dentistry 7 – Pulp Therapy and Trauma

This seminar series reviews pertinent literature regarding pulpal therapy in the primary and young permanent dentition. The course will also include a comprehensive didactic review of endodontic therapy of the young permanent dentition.

The trauma series of lecture/seminars is designed to prepare the graduate student in the diagnosis and clinical management of developing and developed permanent teeth that have experienced pulp injury due to trauma. The course will provide the student with 1) a biological perspective on the clinical sequelae to traumatic injury, 2) a clinical approach to treatment and 3) an evaluative perspective on the results of treatment and trauma.

K. CAMPBELL, J. GILLANDERS, E. BARRETT, A. MONCARZ

DEN4008Y Pediatric Orthodontics

This 3-year course is designed for pediatric dentistry specialty students. (a) History taking, orthodontic diagnosis, treatment planning (1st year); (b) Clinical orthodontics for pediatric dentistry students (1st, 2nd & 3rd years); (c) Mechanics in orthodontic patient treatment (2nd year); (d) Facial morphology, growth and development - assessment of Burlington data (1st yr).

K. CAMPBELL, P. SECTAKOF, S. CHUNG

DEN4009Y Pediatrics

This is a series of seminars and ward rounds directed by the Department of Pediatrics at the Hospital for Sick Children. A study of growth and development from birth to adulthood is presented, stressing normal values as well as causes and effects of deviations from them. This course runs concurrently with DEN4010Y and major topic areas are reinforced through patient presentations during ward rounds. Major infections are reviewed as to etiology, clinical manifestations and treatment, and current immunization procedures are presented. Tumors of a benign or malignant nature which are common to the pediatric age group are discussed as to clinical aspects and current therapies, and common bleeding disorders are described, with emphasis on management and relevance to dental practice. The aspects of cardiac disease in childhood are presented as well as related prophylactic measures in current use in dental practice. A lecture on basic genetics is given as to modes of inheritance, chromosomal abnormalities and methods of investigation. At the Hospital for Sick Children, patients are presented who represent some of the subjects discussed in the lecture series, thereby enhancing the latter through clinical illustrations.

K. CAMPBELL, M. WEINSTEIN, PEDIATRICS, HOSP. FOR SICK CHILDREN

DEN4010Y Pediatric Medicine & Hospital Dentistry

This seminar course has emphasis on examination of the scientific evidence supporting contemporary practice. The pediatric dentistry graduate student will gain understanding of what being a member of hospital staff entails, principles of management of dental disease under general anesthesia, medical management of a variety of co-morbidities to support their caring for the oral health of children. Topics addressed include: oro-facial wound healing, hematological diseases, cardiovascular disease, liver disease, renal disease, common syndromes & those with craniofacial malformations, dermatological diseases, disorders of muscular function, metabolic and endocrine disorders, children with medical devices, childhood cancers, respiratory diseases, neurological disorders, allergy, immunodeficiency, infectious diseases, obesity & eating disorders, pregnancy and substance abuse. Additionally, the course will inform clinical decision-making, incorporating the added complexity of developing a comprehensive treatment plan for the pediatric patient with special health care needs. It will also discuss the issues surrounding palliative and end-of-life management of oral pain/disease.

K. CAMPBELL

DEN4011Y Conscious Sedation and Anesthesia in Pediatric Dentistry

The pharmacological management of a child's behavior is a core clinical requirement for the clinical specialty of pediatric dentistry, as is the management of children and patients with special needs under general anesthesia. This seminar course provides in-depth understanding of the pharmacokinetics of nitrous oxide-oxygen analgesia, oral moderate sedation adjuncts and patient management under deep sedation and general anaesthesia. Students must successfully complete Pediatric Advanced Cardiac Life Support (PALS) and Advanced Cardiac Life Support (ACLS) as pre-requisite courses for oral moderate sedation, non-intubated and intubated general anesthesia clinics.

K. CAMPBELL, P. COPP

DEN5001Y Graduate Endodontics Case Presentations

This weekly three-year seminar series is intended to discuss clinical cases, recently diagnosed, currently under treatment or already treated. The cases are presented by the endodontics graduate students in accordance with a specific schedule, with three cases normally presented in any given session. Presentations follow a standardized format, and include all pre-operative and intra-operative information pertaining to the presented cases. Information on anamnesis and clinical and radiographic findings is presented to form the basis for differential diagnosis, treatment planning and projection of prognosis. Information on treatment procedures performed is then presented using radiographic and photographic visual aids. The presentation is concluded with discussion of learning points and critique of the treated case provided by the presenting student. Diagnostic and therapeutic steps are to be supported by relevant evidence. The presentation is open to discussion and critique by attending students and staff.

Course components include use of Power Point for case presentation, citation of evidence supporting diagnostic and therapeutic procedures, and critique of all steps and procedures related to the treated case. Graded components of the course include (1) quality and interpretation of radiographs, (2) appropriate use of evidence base, and (3) critique of the case. The cumulative grades for each of components (1) and (2) amount to 35% of the annual grade, whereas the cumulative grades for

component (3) amount to 30% of the annual grade. A grade for the course is assigned at the end of each academic year.

This course is designed to enhance and amplify the students' scope of clinical experiences by sharing experiences from cases treated by others. The discussion also provides an opportunity for exposure to other opinions than those provided by the clinic instructors during the treatment of the presented cases, further expanding the scope of the clinical experiences. Finally, the emphasis on providing evidence for diagnostic and therapeutic procedures is designed to enhance the culture of "evidence-based healthcare" and its application in the context of endodontic treatment. Participation in this course is a program requirement.

B. BASRANI, STAFF

DEN5002Y Graduate Endodontics Topical Literature

This weekly two-year seminar series reviews the historic and principle literature that provides the basis for understanding of endodontic disease and its treatment. The scientific literature identified as being important to the field is critically reviewed and key concepts are established. Specific areas reviewed include the (i) development, structure and pathophysiology of the dental pulp and periapical tissues, (ii) causes, prevention, and management of endodontic post-treatment disease (treatment failure), (iii) effects and management of traumatic injury to the developing and developed permanent dentition, (iv) evolution and testing of methods and materials for root canal preparation and filling, (v) long-term outcomes of endodontic treatment, (vi) considerations for post-treatment restoration, (vii) benefits and risks associated with internal bleaching, and (viii) several clinical topics. An extensive reading list and the oral presentation of selected articles on assigned topics constitute the course requirement. The series is a continuum spanning two years. Students enter the course in the beginning or in the middle in alternating years.

Course components include (1) reading of assigned literature, (2) participation in the discussion of the assigned literature, (3) presentation of the summaries of selected assigned articles, (4) preparation and presentation of entire seminars on selected topics. There is no percentage value allocated to the course components. A grade for this course is assigned based on performance in a final examination.

This course is designed to provide the biological foundation for endodontic therapy. Acquiring knowledge about this foundation is essential for education of specialists in the field of Endodontics. Participation in this course is a program requirement.

B. BASRANI, STAFF

DEN5003Y Graduate Endodontics Current Literature

This weekly three-year seminar series reviews the current publications pertaining to endodontics. Using comprehensive on-line search strategies, current publications related to each of 15 themes are identified. Selected articles on each theme are assigned to students for review. Each seminar session addresses either one of the 15 themes in accordance with a structured schedule. The students submit a review on their assigned articles comprising a summary and critique, both in writing for archiving purposes and verbally during the seminars. They also submit multiple-choice questions for each assigned article, to comprise a pool of potential questions for a year-end examination. The seminars are moderated by graduate endodontics staff members who provide the context for the impact of the reviewed articles on the body of knowledge related to each theme.

Course components include reading of assigned articles, submission of written summaries and critique of articles, submission of two multiple-choice questions for each article, presentation of the summary and critique during the seminar, and use of cross references to provide context for the reviewed article. Graded components of the course include (1) thoroughness of cross-referencing, and (2) critique of the article. The cumulative grades for each component amount to 25% of the final grade. An examination at the end of each academic term (December and June) amounts to the remaining 50% of the course grade for that year.

This course is designed to help the students develop the necessary skills for critical reading of the scientific literature, while also acquiring knowledge of the most current advances in most areas of endodontic research. Participation in this course is a program requirement.

B. BASRANI, STAFF

DEN5004Y Single Tooth Replacements with implant supported Prosthesis

This course is designed to provide formal education and training for students enrolled in the MSc Endodontic program in the field of Implant Dentistry, with specific focus on the replacement of a single tooth with an implant-supported prosthesis. The course consists of three modules designed to provide formal didactic, preclinical and clinical exposure in both the surgical and prosthetic phases of implant treatment.

B. BASRANI, J. LAI, STAFF

DEN5005F Introduction to Graduate Endodontics

Students entering the MSc program in Endodontics are all dentists who have had different educational and clinical experiences. Before these students can begin treating patients, they have to increase their theoretical knowledge and clinical skills to a level expected of the specialty student. This course is designed to achieve that goal by combining the basic theoretical knowledge with hands on practice on extracted teeth.

B. BASRANI, STAFF

DEN999Y1 Dental Resident Seminars

This course represents the didactic component of the Hospital Dental Residency Programme at the University of Toronto. Seminars are held biweekly from July through May. The course consists of a core block of lectures that will help prepare all residents to diagnose and provide basic treatment to dental patients in the hospital acute care setting, provide dental care to medically-compromised pediatric, adult and geriatric patients, and identify and manage various pathologic entities of the head and neck. The course also includes lecture blocks specific to the individual educational objectives of the programme's three training sites, including the safe administration of parenteral conscious sedation to dental patients and the dental and surgical management of the cleft-craniofacial patient. City Wide Rounds are held biannually where residents present and discuss interesting clinical cases with faculty and peers. Credit for this course will be based on seminar attendance and participation. *This is a credit/non-credit based course.*

J. DAVIS

PDE9094Y Clinical Conferences

This is a seminar series with compulsory attendance for all graduate clinical students (except those in Oral Pathology & Oral Medicine specialty). Groups comprising two or three residents from different specialty programs are assigned to work together to present formal one-hour seminars. Topics of presentation should be multidisciplinary, related to current clinical issues in the individual specialty fields, evidenced-based, and serve to keep attendees abreast of current treatment philosophy in specialties other than their own. Credit for the course is based on a required minimum number of attendance. For those assigned to present, in addition to meeting attendance requirements, credit is based on the seminar presentation and submission of a written report of the case presentation to a journal. *(This is a credit/ non-credit course).*

S.G. GONG, G. KULKARNI, STAFF

Description of Degree Programs (M.Sc./ Ph.D.) with Advanced Dental Specialty Training

The following symbols are used in all Specialty Program Descriptions, which follow:

- * Indicates courses offered in alternate years.
- « Indicates courses which may continue over a program, and which are graded when completed.
- y Indicates a course that may be substituted by an equivalent course offered by another Faculty.

Dental Anaesthesia

Graduate Specialty Program Director

Dr. C. Yarascavitch

The principle objective of this program is to prepare the dentist to provide the full range of sedation and anaesthetic techniques for dental patients with the focus on deep sedation and general anaesthesia. An additional objective is to train clinicians to be able to undertake teaching and research in dental anaesthesia. The teaching facilities for this program are provided by the combined resources of Dental Anaesthesia in the Faculty of Dentistry and the Department of Anaesthesia, Faculty of Medicine. Training is given both at the Faculty and at teaching hospitals associated with the University. Clinical anaesthesia training includes 12 months at the Faculty, 8 months at Toronto East General Hospital and 4 months at the Hospital for Sick Children. Additional clinical training includes rotations in internal and emergency medicine, respirology, cardiology, and orofacial pain as individual clinical and research activities permit. Students are expected to participate in a range of clinical teaching experiences, including undergraduate, continuing education, and peer teaching. The precise timing of the research component can vary and will be incorporated into the schedule on an individual basis. Each student is required to complete an ACLS (Advanced Cardiac Life Support) course before the end of Year I and PALS (Pediatric Advanced Cardiac Life Support) before the end of Year II. Currency in ACLS and PALS certification is mandatory during the registration period. The following is an outline of the program.

YEAR I

First term

Research Ethics (DEN1010H)

Introduction to Biostatistics (DEN1015H)

Basic Principles of Anaesthesia (DEN1055H)

Basic Concepts in Clinical Medicine (DEN1056Y)

Medical Anaesthesia Seminars I (DEN1071Y)

Dental Anaesthesia Graduate Seminars (DEN1073Y)

Foundations of Medicine as Applied to Dental Anaesthesia (DEN1074Y)

General Anaesthesia for Medical Procedures – Adult I (DEN1076Y)

General Anaesthesia for Dental Procedures – Adult I (DEN1078Y)

Experiences in Clinical Teaching I (DEN1084H)

Fundamentals of Dental Anaesthesia I (DEN1087Y)

Research (RST9999Y)

Second Term

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Basic Concepts in Clinical Medicine (DEN1056Y)

Medical Anaesthesia Seminars I (DEN1071Y)

Dental Anaesthesia Graduate Seminars (DEN1073Y)

Foundations of Medicine as Applied to Dental Anaesthesia (DEN1074Y)

General Anaesthesia for Medical Procedures – Adult I (DEN1076Y)

General Anaesthesia for Dental Procedures – Adult I (DEN1078Y)

Experiences in Clinical Teaching I (DEN1084H)

Fundamentals of Dental Anaesthesia I (DEN1087Y)

Research (RST9999Y)

YEAR II

First term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

General Anaesthesia for Medical Procedures – Pediatric (DEN1052Y)

Dental Anaesthesia Journal Review II (DEN1058Y)

Medical Anaesthesia Seminars II (DEN1072Y)

General Anaesthesia for Medical Procedures – Adult II (DEN1077Y)

General Anaesthesia for Dental Procedures – Adult II « (DEN1079Y)

Experiences in Clinical Medicine (DEN1083Y)

Experiences in Clinical Teaching II (DEN1085H)

Fundamentals of Dental Anaesthesia II (DEN1088Y)

Local Anaesthesia for Dental Procedures (PDE9069H)

Clinical Conferences (PDE9094Y)

Research (RST9999Y) or Research Practicum (DEN1061H)

Second Term

As in first term

YEAR III

First term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

General Anaesthesia for Medical Procedures – Pediatric (DEN1052Y) – *if not taken in Yr 2*

General Anaesthesia for Dental Procedures – Pediatric (DEN1075Y)

General Anaesthesia for Medical Procedures – Adult II (DEN1077Y) – *if not taken in Yr 2*

General Anaesthesia for Dental Procedures – Adult II « (DEN1079Y)

Experiences in Clinical Teaching III (DEN1086H)

Fundamentals of Dental Anaesthesia III (DEN1089Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y) or Research Practicum (DEN1061H)

Second Term

As in first term

Electives – May be arranged according to the student's interest or at the discretion of the Graduate Program Director. Elective experiences may include topics such as Emergency Medicine, Acute Care/Resuscitation, Respiriology, Cardiology, and Orofacial Pain.

Other courses can be arranged according to the student's interest through the Graduate Program Director or Graduate Chair.

Dental Public Health

Graduate Specialty Program Director

Dr. C. Quiñonez

This program normally consists of a core of subjects taken in the first year and second year, with optional subjects chosen by students in consultation with the Director of the Program. The practicum is generally conducted in the months between first and second year. Courses are given by the Faculty of Dentistry and by other university units such as the Dalla Lana School of Public Health, and the Institute of Health Policy, Management and Evaluation. The following is an outline of the program curriculum. Other courses can be arranged according to the student's interest through the Director of the Program or the Associate Dean of Graduate Education. The program is also offered on a part-time basis. Part-time students have up to five years to complete all requirements.

YEAR I

First Term

Introduction to Public Health Sciences (CHL5004H)

Preventive Dentistry (DEN1003H)

Dental Public Health Seminars (DEN1006Y)

Research Ethics (DEN1010H)

Introduction to Biostatistics (DEN1015H)

Oral Epidemiology (DEN1051Y)

Practicum in Dental Public Health (DEN1063Y)

Clinical Conferences (PDE9094Y)

Thesis/Research (RST9999Y)

Second Term

Dental Public Health Seminars (DEN1006Y)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Oral Epidemiology (DEN1051Y)

Practicum in Dental Public Health (DEN1063Y)

Clinical Conferences (PDE9094Y)

Thesis/Research (RST9999Y)

YEAR II

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Approved Option I: Health Policy or Health Economics

Approved Option II

Thesis/Research (RST9999Y)

Second Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Management Principles in Canadian Dental Health Organizations (DEN1064H)

Thesis/Research (RST9999Y)

Endodontics

Graduate Specialty Program Director

Dr. B.R. Basrani

The graduate Endodontics program is designed to provide students with opportunities to acquire excellent clinical skills and comprehension of the underlying biology. Its components include (i) patient care, providing all aspects of endodontic treatment, (ii) topic-specific and current literature seminars, (iii) clinical conferences, (iv) core curriculum courses, (v) rotation programs (when available), (vi) research at the M.Sc. level, including application for funding, preparation of manuscripts for publication, presentation at national and international research forums, and (vii) guest lectures. Great emphasis is placed on self-learning in all of the program's components. Students are encouraged to identify research topics, related to endodontic science or any other dental or non-dental scientific area. Through continual updating of courses and research schedules, the program aims to achieve a balanced platform of excellent specialty education and committed service to patients. Students are encouraged to join the Ontario Society of Endodontists, the Canadian Academy of Endodontics and the American Association of Endodontists. The following is an outline of the program curriculum (changes may occur according to availability of courses, particularly those offered every other year):

YEAR I

First Term

Anatomy (DEN3005H)

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Introduction to Biostatistics (DEN1015H)

Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures (DEN1090H)

Graduate Endodontics Case Presentations (DEN5001Y)

Graduate Endodontics Topical Literature (DEN5002Y)

Graduate Endodontics Current Literature (DEN5003Y)

Introduction to Graduate Endodontics (DEN5005H)

Endodontic Clinic (PDE9091Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

Oral Pathology (DEN1002S)

Cone Beam CT Imaging (DEN1008S)
Clinical Epidemiology and Evidence-Based Care (DEN1014H)
Pharmacology of Dental Therapeutics (DEN1062H)
Advances in Dental Materials Sciences (DEN1070H)*
Graduate Endodontics Case Presentations (DEN5001Y)
Graduate Endodontics Topical Literature (DEN5002Y)
Graduate Endodontics Current Literature (DEN5003Y)
Endodontic Clinic (PDE9091Y)
Clinical Conferences (PDE9094Y)
Research (RST9999Y)
Teaching (in the undergraduate preclinical endodontics course).

YEAR II

First Term

Investigating Pathogenic Biofilms (DEN1022H)
Oral Physiology: Sensory & Neuromuscular Function (DEN1060F)
Graduate Endodontics Case Presentations (DEN5001Y)
Graduate Endodontics Topical Literature (DEN5002Y)
Graduate Endodontics Current Literature (DEN5003Y)
Single Tooth Replacement with Implant Supported Prosthesis (DEN5004Y)
Endodontic Clinic (PDE9091Y)
Clinical Conferences (PDE9094Y)
Research (RST9999Y)

Second Term

Advances in Dental Materials Sciences (DEN1070H)* (*if not taken in year 1*)
Graduate Endodontics Case Presentations (DEN5001Y) Graduate Endodontics Topical

Literature (DEN5002Y) Graduate Endodontics Current Literature (DEN5003Y)

Single Tooth Replacement with Implant Supported Prosthesis (DEN5004Y)

Endodontic Clinic (PDE9091Y)

Clinical Conferences (PDE9094Y)

Teaching (in the undergraduate preclinical endodontics course)

Research (RST9999Y)

YEAR III

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Toronto Public Health dental clinic rotation

Graduate Endodontics Case Presentations (DEN5001Y)

Graduate Endodontics Current Literature (DEN5003Y)

Single Tooth Replacement with Implant Supported Prosthesis (DEN5004Y)

Endodontic Clinic (PDE9091Y)

Research (RST9999Y)

Second Term

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Toronto Public Health dental clinic rotation

Graduate Endodontics Case Presentations (DEN5001Y)

Graduate Endodontics Current Literature (DEN5003Y)

Single Tooth Replacement with Implant Supported Prosthesis (DEN5004Y)

Endodontic Clinic (PDE9091Y)

Research (RST9999Y)

Teaching (in the undergraduate preclinical endodontics course)

Oral Pathology and Oral Medicine

Graduate Specialty Program Director

Dr. G. Bradley

Oral Pathology and Oral Medicine are separate programs each leading to eligibility for examination in the corresponding program by the Royal College of Dentists of Canada. Accreditation requirements specify a “core” program common to both programs, which allows both Oral Pathology and Oral Medicine to be completed in four years. Oral Medicine and Oral Pathology each takes three years and may be taken independently. Each may be a customized program of study and research. Preference is normally given to candidates who wish to pursue the combined program.

An M.Sc. (Oral Medicine) or M.Sc. (Oral Pathology) is awarded for an independent program or M.Sc. (Oral Pathology and Oral Medicine) for those completing the combined program.

YEAR I

First Term

General and Special Pathology for Residents (LMP1005Y) †

Second Term

General and Special Pathology for Residents (LMP1005Y) †

YEAR II

First Term

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Seminars in Advanced Oral Pathology (DEN1011Y)

Oral Medicine (DEN1012Y)

Oral Surgical Pathology (DEN1013Y)

Introduction to Biostatistics (DEN1015H)

Research (RST9999Y)

Second Term

Full year courses as in First Term

Oral Pathology (DEN1002S)

Cone Beam CT Imaging (DEN1008S)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

YEAR III

First Term and Second Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Seminars in Advanced Oral Pathology (DEN1011Y)

Oral Medicine (DEN1012Y)

Oral Surgical Pathology (DEN1013Y)

Research (RST9999Y)

YEAR IV

Seminars in Advanced Oral Pathology (DEN1011Y)

Oral Medicine (DEN1012Y)

Oral Surgical Pathology (DEN1013Y)

Research (RST9999Y)

Other courses may be arranged according to the student's interest by the Head of the Program or the Chair of the Graduate Department.

† Completed by M.Sc. (Oral Pathology) and M.Sc. (Oral Pathology & Medicine).

Oral and Maxillofacial Radiology

Graduate Specialty Program Director

Dr. E. Lam

The graduate Oral and Maxillofacial Radiology program stresses the prescription and analysis of images to diagnose abnormalities of the craniofacial region.

The clinical program provides extensive experience in intra- and extra-oral radiography, sialography, multidetector and cone beam computed tomography and magnetic resonance imaging through patient contact in either the Oral and Maxillofacial Radiology clinic in the Faculty of Dentistry, or in one of the associated teaching hospitals. Intensive didactic courses in oral and maxillofacial pathology together with seminars relating the relevant foundational sciences underpinning disease pathogenesis to radiologic appearances provide an understanding of the mechanisms by which pathologic conditions alter the appearances of normal tissues depicted on radiologic images. Radiology rounds conducted with medical radiology residents highlight the use of advanced imaging to diagnose abnormalities of the head and neck. Radiation biology and physics, biostatistics and epidemiology, disorders of the temporomandibular joints and experience in undergraduate teaching are also integral components of the program.

An M.Sc. or Ph.D. degree is also completed as part of the research component of the program. This involves the identification of a basic scientific, clinical or educational research topic identified by the graduate student as an area of interest. The research project is further refined in collaboration with a faculty member, and the work is examined in the form of a written thesis and oral defense.

Successful completion of the program entitles the student to challenge both the National Dental Specialty Examination administered by the Royal College of Dentists of Canada, leading to Fellowship in the College, and the American Board of Oral and Maxillofacial Radiology examination.

The following is an outline of the program curriculum:

YEAR I

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Oral Surgical Pathology (DEN1013Y)

Advanced Oral and Maxillofacial Radiology I (DEN1094Y)

Craniofacial Anatomy & Osteology (DEN2008Y)

Research (RST9999Y)

Mi Applied Physics modules (<http://www.miappliedphysics.com>)

Second Term

As in first term plus

Physics of Radiology – Part I

Oral Pathology (DEN1002S)

Temporomandibular Disorders* (DEN1017S)

YEAR II

First Term

Oral Surgical Pathology (DEN1013Y)

Introduction to Biostatistics (DEN1015H)

Advanced Oral and Maxillofacial Radiology II (DEN1095Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Mi Applied Physics modules (<http://www.miappliedphysics.com>)

Second Term

As in first term plus

Clinical and Experimental Radiobiology

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Temporomandibular Disorders* (DEN1017S) (*if not taken in year 1*)

YEAR III

Advanced Oral and Maxillofacial Radiology III (DEN1096Y)

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Research/Thesis (RST9999Y)

Oral and Maxillofacial Surgery

Graduate Specialty Program Director

Dr. M. Caminiti

The program in Oral and Maxillofacial Surgery is a minimum of four years (48 months) in length in order to satisfy the completion of didactic and clinical requirements as well as those of the M.Sc. degree. Clinical activities are based primarily at Mt. Sinai Hospital, Sunnybrook Health Sciences Centre, Humber River Hospital, and The Hospital for Sick Children. There is also additional participation at other University of Toronto Affiliated Teaching centres: Holland Bloorview Kids Rehabilitation, Lakeview Health, and the Rouge Valley Health Network. Residents participate in all areas of Oral and Maxillofacial Surgery with increasing responsibilities for patient care in a graduated fashion. There is also a strong component of clinic care within the faculty of Dentistry with teaching opportunities to undergraduate students. The junior resident (PGY1) is focussed primarily on patient care and outpatient clinic management with assistance in the operating room. The sophomore resident (PGY2) is an off service rotation with 12 months of clinical rotations. The senior resident (PGY3) is responsible for management of the operating rooms and developing surgical skills. The final Chief Resident year (PGY4) demands a leadership role in coordinating the 36 operating rooms days per month and the 42 clinic days per month. In PGY4, external electives may be arranged (to a maximum of one month) in craniofacial surgery, head and neck surgery, reconstructive surgery, cleft lip and palate surgery, cosmetic surgery and maxillofacial trauma. ACLS training is to be completed prior to commencement of Year III, ATLS training must be completed before the end of Year IV.

A requirement of the Faculty of Dentistry is the registration into the School of Graduate Studies and the obtaining of a Masters of Science Degree. This needs to be an original study in either clinical, epidemiological, education or laboratory research and undertaken according to the residents' interest and the availability of a graduate research committee. The research must be published in a comprehensive thesis and supported by an oral defense.

The following is the outline of the curriculum:

YEAR I

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Principles of Surgery (Faculty of Medicine; Surgical Skills Centre)

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Oral Surgical Pathology (DEN1013Y)

Surgical Orthodontics (DEN2005Y)

OMFS 1 - The Physiological Basis of Disease (DEN3001Y)

OMFS 2 - Principles and Practice of Oral and Maxillofacial Surgery (DEN3002Y)

OMFS 3 - Evidence-based Literature Reviews in Oral and Maxillofacial Surgery (DEN3003Y)

OMFS 4 - Applied Surgical Anatomy of the Head and Neck (DEN3004Y)

Anatomy (DEN3005H)

Clinical Conference (PDE9094Y)

Research (RST9999Y)

Second Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Oral Pathology (DEN1002S)

Oral Surgical Pathology (DEN1013Y)

Surgical Orthodontics (DEN2005Y)

OMFS 1 - The Physiological Basis of Disease (DEN3001Y)

OMFS 2 - Principles and Practice of Oral and Maxillofacial Surgery (DEN3002Y)

OMFS 3 - Evidence-based Literature Reviews in Oral and Maxillofacial Surgery (DEN3003Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

YEAR II

First Term

Introduction to Biostatistics (DEN1015H)

OMFS 1 - The Physiological Basis of Disease (DEN3001Y)

OMFS 2 - Principles and Practice of Oral and Maxillofacial Surgery (DEN3002Y)

OMFS 3 - Evidence-based Literature Reviews in Oral and Maxillofacial Surgery (DEN3003Y)

Research (RST9999Y)

CLINICAL ROTATIONS

Anaesthesia – 3 months (Adult), 1 month (Pediatric); Internal Medicine - 2 months; Emergency Medicine - 1 month; General Surgery - 2 months; Otolaryngology Head and Neck Surgery - 2 months; ICU - 1 month; Craniofacial Surgery – 1 month

Second Term

As in first term with the addition of:

Cone Beam CT Imaging (DEN1008S)

YEAR III

First Term

Oral Surgical Pathology (DEN1013Y)

Surgical Orthodontics (DEN2005Y)

OMFS 1 - The Physiological Basis of Disease (DEN3001Y)

OMFS 2 - Principles and Practice of Oral and Maxillofacial Surgery (DEN3002Y)

OMFS 3 - Evidence-based Literature Reviews in Oral and Maxillofacial Surgery (DEN3003Y)

OMFS 4 - Applied Surgical Anatomy of the Head and Neck (DEN3004Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

YEAR IV

First and Second Term

Surgical Orthodontics (DEN2005Y)

OMFS 1 - The Physiological Basis of Disease (DEN3001Y)

OMFS 2 - Principles and Practice of Oral and Maxillofacial Surgery (DEN3002Y)

OMFS 3 - Evidence-based Literature Reviews in Oral and Maxillofacial Surgery (DEN3003Y)

Research/Thesis (RST9999Y)

Orthodontics

Graduate Specialty Program Director

Dr. S. Suri

The mission of the graduate specialty program in Orthodontics and Dentofacial Orthopedics is to graduate orthodontists who have the scientific training and clinical skills to make evidence based treatment decisions and provide excellent clinical orthodontic care together with a research experience that ensures the ability to critically evaluate the literature and the desire to be life-long learners.

The specific objectives are to:

- a) Provide a strong educational background in science and investigatory methodology so that decisions in clinical care are evidence based and patient centered.
- b) Provide research and teaching experiences that are formulated on the principles and procedures that have biological and scientific validity.
- c) Provide the evaluation and information retrieval skills that are used to critically evaluate the scientific literature and emphasize the principles of an orthodontic career of life-long learning.
- d) Provide the opportunity to interact with other dental care specialties to provide comprehensive care in those patients who require a team approach to their overall care.
- e) Provide the basic training in clinical technique and mechanotherapy and develop the clinical skills that will produce a competent clinician.

The program provides a comprehensive education in orthodontics through a three-year M.Sc. program, through a balance in the major components of the graduate students' education in orthodontic treatment, didactics, research and research related courses. The program provides the students dedicated research time throughout the 3 years.

Graduate students must be able to demonstrate adequate background knowledge of the following subjects, which will not be scheduled in the formal curriculum of study: 1) Dental Histology; 2) Preventive Dentistry; and 3) Gross Anatomy. Oral examinations will be held in the first clinical year if the standard of knowledge in any of the above subjects is below that required. Arrangements for a formal course of instruction must be made through the graduate specialty program directors of the programs concerned.

The following is an outline of the program curriculum:

YEAR I

First Term

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Introduction to Biostatistics (DEN1015H)

Oral Physiology: Sensory and Neuromuscular Function (DEN1060F)

Orthodontics 1 – Advanced Orthodontic Diagnosis and Treatment Planning (DEN2001Y)

Surgical Orthodontics (DEN2005Y)

Facial Growth and Facial Analysis (DEN2006Y)

Craniofacial Anatomy and Osteology (DEN2008Y)

Tissue Reaction to Orthodontic and Orthopedic Forces (DEN2010H)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

As in first term with the addition of

Cone Beam CT Imaging (DEN1008S)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

YEAR II

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Orthodontics 2 – Biomechanics, Orthodontic Technique and Practice Administration (DEN2002Y)

Surgical Orthodontics (DEN2005Y)

Craniofacial Anomalies (DEN2007Y)*

Classic Theories of Craniofacial Growth (DEN2009H)

Craniofacial Morphology and Development (DEN2011Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

As in first term with the addition of

Occlusion: Function and Dysfunction (DEN1016S)*

Temporomandibular Disorders (DEN1017S)*

YEAR III

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Orthodontics 3 – Ortho Tech & Clin Prac (DEN2003Y)

Orthodontics 4 – Interceptive Ortho (DEN2004Y)

Surgical Orthodontics (DEN2005Y)

Craniofacial Anomalies (DEN2007Y)* *(if not taken in year 2)*

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

As in first term plus

Occlusion: Function and Dysfunction (DEN1016S)* *(if not taken in year 2)*

Temporomandibular Disorders (DEN1017S)* *(if not taken in year 2)*

Other courses can be arranged according to the student's interest through the Director of the Program, or Chair of the Graduate Department.

*offered in alternate years

Pediatric Dentistry

Graduate Specialty Program Director

Dr. K. Campbell

The Faculty of Dentistry, University of Toronto is the oldest fully accredited specialty program in Pediatric Dentistry in Canada. This is a three year program leading to a Master's of Science Degree with advanced clinical training in all aspects of Pediatric Dentistry. The didactic program is centered at the Faculty of Dentistry, while the clinical program will be divided between the Faculty of Dentistry and The Hospital for Sick Children with additional mandatory rotations to Weeneebayko General Hospital in Moose Factory, Ontario; Mt. Sinai Hospital and a community-based Toronto Public Health dental clinic. During the program graduate students will manage emergency cases, provide dental rehabilitation under conscious sedation and general anaesthesia, will provide specialty consultations, manage pediatric oral pathology, oral and maxillofacial surgery, fixed and removable orthodontics and complex restorative cases. In addition, graduate students will be assigned undergraduate teaching responsibilities. Graduate students are required to complete a Master's research project during the program. Note that curriculum may be changed to meet the needs of students. Not all courses are offered each year. The following is an outline of the program curriculum:

YEAR I

First Term

Preventive Dentistry (DEN1003F)

Oral and Maxillofacial Radiology (DEN1007F)

Research Ethics (DEN1010H)

Introduction to Biostatistics (DEN1015H)

Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures (DEN1090H)

Craniofacial Anomalies* (DEN2007Y)

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 3 – Facial and Dental Growth and Development in Pediatric Dentistry (DEN4003Y)

Pediatric Dentistry 4 – Child Behaviour Management (DEN4004H)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Pediatric Dentistry 6 – Oral and Maxillofacial Surgery as it Applies to Pediatric Dentistry (DEN4006Y)

Pediatric Dentistry 7 – Pulp Therapy and Trauma (DEN4007H)

Pediatric Orthodontics (DEN4008Y)

Pediatrics (DEN4009Y)

Pediatric Dentistry 9 – Care of Patients with Special Needs and Applied Pediatric Dentistry (DEN4010Y)

Pediatric Dentistry 8 – Conscious Sedation and Anaesthesia in Pediatric Dentistry (DEN4011Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

Oral Pathology (DEN1002S)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Pharmacology of Dental Therapeutics (DEN1062H) (*Audit*)

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 3 – Facial and Dental Growth and Development in Pediatric Dentistry (DEN4003Y)

Pediatric Dentistry 4 – Child Behaviour Management (DEN4004H)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Pediatric Dentistry 6 – Oral and Maxillofacial Surgery as it Applies to Pediatric Dentistry (DEN4006Y)

Pediatric Dentistry 7 – Pulp Therapy and Trauma (DEN4007H)

Pediatric Orthodontics (DEN4008Y)

Pediatrics (DEN4009Y)

Pediatric Dentistry 9 – Care of Patients with Special Needs and Applied Pediatric Dentistry (DEN4010Y)

Pediatric Dentistry 8 – Conscious Sedation and Anaesthesia in Pediatric Dentistry (DEN4011Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Third Term

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Research (RST9999Y)

YEAR II

First Term

Craniofacial Anomalies* (DEN2007Y) *(if not taken in year 1)*

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Pediatric Orthodontics (DEN4008Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

Dental Materials Science (DEN1070H)*

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Pediatric Orthodontics (DEN4008Y)

Research (RST9999Y)

Third Term

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Research (RST9999Y)

YEAR III

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Pediatric Dentistry 1 – Theory (DEN4001Y)

Pediatric Dentistry 2 – Journal Review (DEN4002Y)

Pediatric Dentistry 5 – Clinical Pediatric Dentistry (DEN4005Y)

Pediatric Orthodontics (DEN4008Y)

Research (RST9999Y)

Second Term

As in first term with the addition of:

Cone Beam CT Imaging (DEN1008S)

Dental Materials Science (DEN1070H)* (*if not taken in year 2*)

**offered in alternate years*

Periodontology

Graduate Specialty Program Director

Dr. J. Lai – 01 July 2019 to 31 December 2019

Dr. V. Mendes – 01 January 2020 to 30 June 2020

The degree program in Periodontology at the Faculty of Dentistry, University of Toronto is designed to provide graduate residents with advanced dental specialty training in periodontology and implantology. It is a minimum three-year program that generally accepts up to 3 residents per year. Successful candidates graduating from this program are eligible, following completion of appropriate licensure examinations, for certification as periodontists.

This program prepares the graduate residents for a career in periodontics by focusing on the clinical and scientific research training. Residents graduating from this program will receive a Master of Science and many will have publications in peer-reviewed journals. Graduate residents interested in a career in academia may also pursue a Ph.D. in conjunction with the clinical periodontal training.

With regard to clinical training, residents are exposed to the all facets of modern periodontology. They will become adept in diagnosing and treating periodontal diseases and other diseases of the oral cavity. Advanced surgical training includes exposure to periodontal plastics and regenerative procedures. Residents are trained to use a variety of endosseous implant systems. The Oral Reconstruction Center is a program that has been developed in collaboration with periodontists, oral and maxillofacial surgeons and prosthodontists where residents are exposed to a multi-disciplinary approach in advanced oral reconstructive therapy. Residents are expected to be competent in single drug IV sedation.

This program is further enhanced by participation in hospital-based periodontics, craniofacial pain, oral medicine and oral pathology rotations. In addition, residents are exposed to the clinical service and research program, the Severe-Refractory Periodontal Disease Investigation and Treatment Unit. Patients with extremely severe periodontal disease are subjected to detailed microbial and host system analyses for the production of prospective outcome data following standard and novel treatment approaches. These novel treatments are based upon medical and pharmacological principles that focus on regulation of host factors such as matrix metalloprotease levels, modulation of inflammation and bone resorption.

The general structure of this program is based on the following format. Residents in their 1st year will be expected to enter the thesis stream program in July. At this point, they will have chosen a research project/supervisor so that they may begin their research projects. The 1st year includes clinical and didactic training but is predominantly (75-80%) dedicated to the Masters Research project. Much more intense clinical training begins in the 2nd and 3rd years of the program. If a resident is unable to complete the thesis-stream MSc program, the resident will be asked to withdraw from the program in graduate periodontology. In only rare circumstances and at the discretion of the Director of Graduate Periodontology is a resident allowed to switch from a thesis stream Master program into a non-thesis stream Masters with a research practicum.

Applicants are also advised that upon acceptance into the Periodontology program they are required to purchase the following items: Camera for Case Documentation (details provided upon acceptance). Each student in this program must successfully complete the A.C.L.S. (Advanced Cardiac Life Support) training prior to entry to second year, so as to enable completion of IV sedation training.

The following is an outline of the curriculum and coursework required for completion of the degree program in Periodontology.

YEAR I

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Research Ethics (DEN1010H)

Oral and Maxillofacial Radiology (DEN1007F)

Introduction to Biostatistics (DEN1015H)

Periodontology – Seminars and Clinics I (DEN1033Y)

Literature Review in Periodontology (DEN1036Y)

Principles and Practice of Periodontology (DEN1039Y)

Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures (DEN1090H)

Research (RST9999Y)

Second Term

As in first term with the addition of:

Cone Beam CT Imaging (DEN1008S)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Advances in Dental Materials Sciences (DEN1070H)*

YEAR II

First Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Investigating Pathogenic Biofilms (DEN1022F)

Periodontology – Seminars and Clinics II (DEN1034Y)

Literature Review in Periodontology (DEN1036Y)

Clinical Case Presentations (DEN1037Y)

Biomaterials and Implant/Reconstructive Dentistry (DEN1038Y)

Principles and Practice of Periodontology (DEN1039Y)

Parenteral Moderate Sedation for Dental Procedures (DEN1091Y)

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Second Term

Same as First Term plus:

Oral Pathology (DEN1002S)

Advances in Dental Materials Sciences (DEN1070H)* (*if not taken in year 1*)

YEAR III

First Term and Second Term

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Oral Surgical Pathology (DEN1013Y)

Periodontology - Seminars and Clinics III (DEN1035Y)

Clinical Case Presentations (DEN1037Y)

Biomaterials and Implant/Reconstructive Dentistry (DEN1038Y)

Principles and Practice of Periodontology (DEN1039Y)

Parenteral Moderate Sedation for Dental Procedures (DEN1091Y)

Clinical Conferences (PDE9094Y)

Mount Sinai Rotations

Princess Margaret Hospital Rotations

Implant Prosthodontics Unit (IPU)

Oral Pathology Rotation (Clinical and Microscopic)

Research (RST9999Y)

Elective Graduate Courses

Other courses may be arranged

Prosthodontics

Graduate Specialty Program Director

Dr. D. Chvartzaid

This degree program prepares students for careers in the specialty of Prosthodontics with particular emphasis on developing clinical teachers and researchers. The eclectic nature of the specialty demands clinical skill and pedagogic acquisition in achieving the competencies to solve patients' stomatognathic problems using the optimal choice of fixed, removable or implant supported prostheses. Prosthodontics also requires a climate of scientific rigor in the development of evidence-based clinical decision making concerning the comprehensive treatment needs of all partially and completely edentulous patients, including those with maxillofacial defects.

Extensive clinical training is provided under close supervision in the Faculty of Dentistry Prosthodontics and the Implant Prosthodontic Unit. Strong surgical, communication, and interpersonal skills are developed in addition to the core prosthodontic skills. Off-site rotations focus on management of patients with specific needs. Rotation to the Princess Margaret Hospital focuses on Maxillofacial Prosthodontics and oncologic management. Rotation to the Holland Bloorview Kids Rehabilitation Hospital focuses on management of Prosthodontic needs in child and adolescent patients. The purpose of these residencies is to learn by observation, participation in treatment planning, and actual clinical treatment, the methods for management used for these patient populations and the challenges involved for achieving optimal treatment results.

As a clinical requirement, a minimum of 20 assigned comprehensively treated patients must be completed to the satisfaction of the Graduate Specialty Program Director. The three year course leads to an MSc Degree. Students interested in pursuing a research career will also have the opportunity to apply for a PhD position. A formal curriculum is available to ensure that education objectives are met. The following courses comprise the proposed curriculum, but may be modified to suit the student's research goals. Course selection may also be modified to include substitute or elective courses as required for the preparation of the Master's degree requirements.

YEAR I

First Term

Research Ethics (DEN1010H)

Oral and Maxillofacial Radiology (DEN1007H)

Introduction to Biostatistics (DEN1015H)

Prosthodontics I - Prosthodontic Treatment Planning and Case Presentations (DEN1041Y)

Prosthodontics II - Key Concepts in Prosthodontics and Laboratory Management (DEN1042Y)*

Prosthodontics III - Prosthodontic Topical Seminars
(DEN1043Y)

Prosthodontics IV - Prosthodontic Current Literature
(DEN1044Y)

Prosthodontics V - Critical Appraisal of the Literature in Prosthodontics and Surgery (DEN1045Y)

Clinical Prosthodontics (DEN1046Y)

Oral Physiology: Sensory and Neuromuscular Function (DEN1060F)

Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures (DEN1090H)

Research (RST9999Y)

Second Term

Same as first term with the addition of:

Cone Beam CT Imaging (DEN1008S)

Clinical Epidemiology and Evidence-Based Care (DEN1014H)

Occlusion: Function and Dysfunction (DEN1016S)*

Temporomandibular Disorders (DEN1017S)*

YEAR II

Occlusion: Function and Dysfunction (DEN1016S)* *(if not taken in year 1)*

Temporomandibular Disorders (DEN1017S)* *(if not taken in year 1)*

Prosthodontics I (DEN1041Y)

Prosthodontics II (DEN1042Y)* *(if not taken in year 1)*

Prosthodontics III (DEN1043Y)

Prosthodontics IV (DEN1044Y)

Prosthodontics V (DEN1045Y)

Clinical Prosthodontics (DEN1046Y)

Advances in Dental Materials Sciences (DEN1070H)*

Research (RST9999Y)

Elective Graduate Courses

YEAR III

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

Prosthodontics I (DEN1041Y)

Prosthodontics III (DEN1043Y)

Prosthodontics IV (DEN1044Y)

Clinical Prosthodontics (DEN1046Y)

Advances in Dental Materials Sciences (DEN1070H)* *(if not taken in year 2)*

Clinical Conferences (PDE9094Y)

Research (RST9999Y)

Elective Graduate Courses

*offered in alternate years

Oral & Maxillofacial Surgery Internship Program

The OMFS internship program is a one year program designed specifically for advanced training in OMFS with the goal towards eventual specializing. Successful applicants will be registered as postgraduate students in the Faculty of Dentistry for the length of their appointment.

Application Process

In order to be eligible for admission consideration, an applicant must be either a graduate of the Doctor of Dental Surgery Program at the University of Toronto, or an equivalent ADA/CDA recognized dental program.

How To Apply

You must complete a paper application form, which can be obtained from the Faculty of Dentistry website. In addition to the application form the following documents must be received by the Admissions office by the **February 1** application deadline:

- Non-refundable application service fee of \$275 CDN (bank draft or money order payable to the University of Toronto). We do not accept personal cheques or credit card payments.
- Curriculum Vitae or Resume
- One to two page statement outlining your interest in the program. Include information on your background, interest, aptitude and ability for the internship program.

In addition, applicants must arrange for the following documents to be submitted directly to the Admissions Office by the application deadline:

- Official dental school transcript in a sealed envelope from the issuing institutions.
- Two letters of reference in sealed envelopes.

Admission documents need to be mailed to the following address:

Admissions Office
Faculty of Dentistry
124 Edward Street, Room 104
Toronto, ON M5G1G6
Canada

Interviews

Interviews are an integral part of the application process. By March each year, shortlisted applicants to the Oral Surgery internship program will be invited for an interview via e-mail. Those not invited for interviews will be informed at this time as well via e-mail.

Program Start Date

This will be a July 1 to June 30 position shadowing a junior resident with didactic participation at SBH and MSH and rounds as well as following the HDR curriculum.

Practice of Dentistry in Ontario

Successful applicants will be required to obtain either an Educational Certificate or a General Certificate of Registration (licence) before they may practice in Ontario. Candidates who have not completed the NDEB examinations obtain an Educational Certificate. Incoming residents should contact the Registrar, Royal College of Dental Surgeons of Ontario (RCDSO), 6 Crescent Road, Fifth Floor, Toronto, Ontario, Canada, M4W 1T1, well in advance of their official starting date to obtain annual licensing costs and to make the necessary arrangements. Tel: (416) 961-6555; Fax: (416) 961-5814.

Registration & Payment of Fees

Prior to the start of their appointment, the oral surgery intern will be required to remit current registration fee charges, \$700, thereby registering as a student in the program. The intern will receive an annual stipend of approximately \$45 000.00.

Residencies in General Dentistry

One year residencies in general dentistry are available in the following University of Toronto teaching hospitals:

The Hospital for Sick Children (4 positions)

Mount Sinai Hospital (6 positions)

Sunnybrook Health Sciences Centre (3 positions)

Residents are given supervised clinical experience in hospital dentistry and assignments to other hospital departments. A three-week to one month assignment to a northern Ontario hospital is offered also. The Associate Dean of Graduate Education, in consultation with Hospital Directors, arranges a special seminar course for dental residents. Completion of the seminar course comprises residents to demonstrate –

- 1) Minimum of 70% attendance of seminars
- 2) Active participation and involvement in discussions of seminars
- 3) A grade of 80% or better on the IV sedation exam

Other components of the one year residency program require that residents give a group oral presentation at the City Wide rounds in November and May of the following year. A critically important part of the course is participation in the question and answer period that follows each presentation.

Admission Requirements

To be eligible for admission into the Dental Residency program applicants must:

- Be a graduate of a four year dentistry program or possess equivalent qualifications, by the commencement of the appointment in June.
- Foreign-trained dental graduates, i.e. graduates of non-accredited dental programs, should have completed the International Dentist Advanced Placement Program and the National Dental Examining Board of Canada (NDEB) examinations.
- As English is the primary language of instruction and communication at the University of Toronto, applicants must demonstrate an adequate level of proficiency in English, regardless of their citizenship status or country of origin. Applicants from universities outside Canada where English is not the primary language of instruction must provide results of an English language proficiency examination as part of their application. Tests must have been taken **within the last 2 years** at the time of submission of their application. Acceptable proof of English facility must be submitted by the application deadline (September 29). Official test scores must be sent by the testing agency directly to the University of Toronto. Our institution code is 0982. The following tests are recognized:
 - a) Test of English as a Foreign (TOEFL): The Minimum requirement is TOEFL PBT - total score 600 + 5.0 on TWE and for TOEFL IBT - total score 100 + 22 on Writing.

- b) Michigan English Language Assessment Battery (MELAB): The minimum requirement is an overall score of 85, with no part below 80.
- c) International English Language Testing System (IELTS) Academic Module: The minimum requirement is an overall band of 6.5, with no band below 6.0.
- d) The Certificate of Proficiency in English (COPE): The minimum requirement is an overall score of 86, with 32 in Writing and 22 in each of the Reading and Listening sections.
- e) Academic Preparation ESL, School of Continuing Studies, University of Toronto: The minimum requirement is a grade of 'B' at the 60/Advanced level.

Residents must conform to Faculty of Dentistry and hospital regulations as they relate to conduct and patient care.

How to Apply

This is a five-step application process. Documentation must be provided for each step according to the following schedule:

Step 1 – Application Deadline: September 30.

Step 2 – Register with the National Match Service Deadline: October 1.

Step 3 - Interviews.

Step 4 – Submit Rank Order List to National Match Service Deadline: November 15.

Step 5 – Review Match Results and Respond to a Matched Program.

STEP 1 - Submitting an Application

To apply to the Dental Residency program you must complete a paper application form which can be obtained from the Faculty of Dentistry website. In addition to the application form the following documents must be received by the Admissions office by the **September 30th** application deadline:

- Non-refundable application service fee of \$ 275.00 CDN payable to the University of Toronto. Payment may be made by bank draft or money order. **We do not accept personal checks or cash.**
- One to two page biographical statement.
- Official transcripts of all previous university education including both undergraduate and dental school studies.* Transcripts must be sent to the Admissions office directly from the issuing institution in a sealed envelope. University of Toronto students applying to the dental residency program do not need to send in their official University of Toronto transcripts. We will download them from ROSI.

*Applicants seeking admission on the basis of official documents that are in a language other than English must submit photocopies of their original documents attached to notarized English translations. In addition, applicants must arrange for an official transcript to be forwarded directly to the Admissions Office from the institution(s) attended by the application deadline.

- Two letters of reference in sealed envelopes.
- Proof of English facility (if applicable) sent directly by the testing agency to the University of Toronto.

Admission documents need to be mailed to the following address:

Admissions Office
Faculty of Dentistry
124 Edward Street, Room 104
Toronto, ON M5G1G6
Canada

STEP 2 – Register for the MATCH

October 1: Applicants should register with the National Match Service (NMS) for Canadian General Practice Residency (GPR-CAN) <https://www.natmatch.com/> beginning on this date. REGISTRATION DEADLINE is **November 15**. Instructions from NMS on Rank Order Lists and obtaining Match results is sent to *registered applicants*, therefore it is recommended that you register prior to the deadline.

STEP 3 – Interviews

Interviews are an integral part of the application process. The U of T Teaching Hospitals will conduct their interviews after the application deadline. The interviews will take place the last weekend in October. Please follow the instructions below:

Each Hospital Dental Department sets its own interview schedule independently of the other Hospitals. If you are selected for an interview, the hospital dental department will contact you directly to set up a date and time for your interview.

STEP 4 – Submit Rank Order List to National Match Service

November 15: DEADLINE FOR RANK ORDER FORMS to be submitted to the National Match Service by applicants and programs.

STEP 5 – Review MATCH and Respond To Matched Program

On **November 22** the results of the match are released by the NMS to applicants and program directors via the website. The program director of the program to which you have been matched will contact you by e-mail. An immediate response is expected.

A list of unmatched programs and unmatched candidates will be available on the NMS website following the release of the match results.

Selection of Applicants

The criteria for selection include academic achievement, motivation, maturity, professionalism, and the ability to work as a team member. Applicants who have never held a dental residency will have preferred status over those who have had this experience. Positions will be offered only to applicants participating in the **Match Process**.

Applicants should review the Match Process, including the Overview of the Match, Rules for Participation, and the Matching Algorithm in the NMS website at: <https://www.natmatch.com/dentres/>.

Matched applicants will be e-mailed by the Program Directors on **November 22**; immediate confirmation by the applicant by e-mail is expected. The Hospital Dental Departments and Faculty GPR Program will maintain all correspondence with incoming residents pertaining to contracts, schedules, responsibilities,

payroll procedures, etc. The Admissions and Graduate Offices in the Faculty of Dentistry will maintain all correspondence pertaining to admission/registration as students in the Faculty of Dentistry.

Practice of Dentistry in Ontario

Successful applicants will be required to obtain either an Educational Certificate or a General Certificate of Registration (license) before they may practice in Ontario. Candidates who have not completed the NDEB examinations obtain an Educational Certificate. Incoming residents should contact the Registrar at the Royal College of Dental Surgeons of Ontario (RCDSO) well in advance of their official starting date to obtain annual licensing costs and to make the necessary arrangements. The RCDSO can be reached at:

Royal College of Dental Surgeons of Ontario
6 Crescent Road, Fifth Floor
Toronto, ON, M4W 1T1
Telephone: (416) 961-6555

Special Students

1. Dental graduates who apply to spend up to one year in the department without enrolling in a program

Dental graduates, who seek advanced clinical training, without enrolling in the M.Sc. program, are occasionally accepted for no more than one year, provided space and resources are available. Such persons must fulfil the following requirements.

- (a) Must have completed specialist training in the specialty for which they are applying.
- (b) Must be supported by the specialty department of a teaching institution in which they are employed or have an offer of employment.

Such students must be aware that there will be no active clinical treatment without the permission of the Graduate Chair.

2. Dental graduates who have been accepted as clinical fellows at one of the teaching hospitals legally affiliated with the Faculty of Dentistry, University of Toronto

The head of the hospital department must present the academic transcript and C.V. of the candidate together with a plan for the study he/she will undertake while at the hospital. If approved by the Graduate Advisory Committee such candidates will be registered as Special Students and will be able to perform clinical work under supervision in the hospitals.

Dental Specialty Assessment and Training Program

Admission Information

The Dental Specialty Assessment and Training Program (DSATP) is a special university program with an initial assessment for a duration of a maximum of three months plus maximum of 9 months of additional training time. The length of the program will be decided by the program specialty and the needs of the candidate, but will not exceed 1 year in total. This program is intended for graduates of non-accredited dental specialty programs, i.e. educational programs that have not been accredited by the Commission on Dental Accreditation of Canada (CDAC) or the American Dental Association Commission on Dental Accreditation (CODA).

The program is designed to clinically assess applicants to determine whether they have the knowledge, skill and judgement equivalent to the standards set to graduate a student from a CDAC or CODA accredited dental specialty program. Upon successful completion of the Dental Specialty Assessment and Training Program, the student would be eligible to apply to write the National Dental Specialty Examination (NDSE) administered by the Royal College of Dentists of Canada. Upon successful completion of this examination, the candidate would be eligible for licensure by one of the Dental Regulatory Authorities.

Programs Offering Training

The Faculty of Dentistry offers the following programs for DSATP assessment and training but it is important to note that spaces are limited by physical facilities and may not be available every year:

Dental Anaesthesia

Dental Public Health

Endodontics

Oral Pathology & Oral Medicine

Oral Pathology

Oral Medicine

Oral and Maxillofacial Radiology

Oral and Maxillofacial Surgery

Orthodontics

Pediatric Dentistry

Periodontology

Prosthodontics

To be eligible for admission into the Dental Specialty Assessment & Training program applicants must:

- Be graduates of a dental specialty program not accredited by the Commission on Dental Accreditation of Canada (CDAC) or the Commission on Dental Accreditation of the American Dental Association (CODA).
- Be a Canadian citizen or have permanent residency status in Canada by the March 31st application deadline. International Students are not eligible to apply to this program.
- As English is the primary language of instruction and communication at the University of Toronto, applicants must demonstrate an adequate level of proficiency in English, regardless of their citizenship status or country of origin. Applicants from universities outside Canada where English is not the primary language of instruction must provide results of an English language proficiency examination as part of their application. Tests must have been taken **within the last 2 years** at the time of submission of their application. Acceptable proof of English facility must be submitted by the application deadline (March 31). Official test scores must be sent by the testing agency directly to the University of Toronto. Our institution code is 0982. The following tests are recognized:
 - a) Test of English as a Foreign (TOEFL): The Minimum requirement is TOEFL PBT - total score 600 + 5.0 on TWE and for TOEFL IBT - total score 100 + 22 on Writing.
 - b) Michigan English Language Assessment Battery (MELAB): The minimum requirement is an overall score of 85, with no part below 80.
 - c) International English Language Testing System (IELTS) Academic Module: The minimum requirement is an overall band of 6.5, with no band below 6.0.
 - d) The Certificate of Proficiency in English (COPE): The minimum requirement is an overall score of 86, with 32 in Writing and 22 in each of the Reading and Listening sections.
 - e) Academic Preparation ESL, School of Continuing Studies, University of Toronto: The minimum requirement is a grade of 'B' at the 60/Advanced level.
- Write the Dental Specialty Core Knowledge Examination (DSCKE) administered by the National Dental Examining Board of Canada (NDEB) prior to the application deadline, and to arrange for their results to be forwarded to the Admissions Office. To register for the DSCKE exam contact:

The National Dental Examining Board of Canada
80 Elgin Street, 2nd Floor
Ottawa, ON
K1P 6R2
Telephone: (613) 236-5912
Email: info@ndeb-bned.ca
Web site: <https://ndeb-bned.ca/en/non-accredited-specialty>

How to Apply

To apply to the Dental Specialty Assessment & Training program you must complete the paper application form obtained from the Faculty of Dentistry website. In addition to the application form the following documents must be received by the Admissions office by the March 31st deadline:

- Non-refundable application service fee of \$ 275.00 CDN payable to the University of Toronto. Payment may be made by bank draft or money order. **We do not accept personal checks or cash.**
- Proof of citizenship (if applicable), i.e. Canadian citizenship or permanent resident status (photocopy only). This document can be mailed directly, faxed to: (416) 979-4944 or sent via e-mail to: admissions@dentistry.utoronto.ca.
- Proof of English facility (if applicable) sent directly by the testing agency to the University of Toronto.
- Notarized copy of your dental school grades accompanied by a notarized English translation, if applicable.
- Notarized copy of your dental school diploma accompanied by a notarized English translation, if applicable.
- Notarized copy of your dental specialty grades accompanied by a notarized English translation, if applicable.
- Notarized copy of your dental specialty diploma or degree accompanied by a notarized English translation, if applicable.
- A photocopy of your NDEB Dental Specialty Core Knowledge results.
- Curriculum Vitae.
- One page statement of interest, including current activities and when you last practiced your specialty.
- Letters of recommendation. A minimum of two are required.
- Applicants who are submitting documents in a name other than that shown on the application must submit proof of name change with the application. A notarized copy of one of the following is acceptable: Marriage Certificate or Change-of-Name Order issued by an Ontario Court Judge or by another court of competent jurisdiction

Admission documents need to be mailed to the following address:

Admissions Office
Faculty of Dentistry
124 Edward Street, Room 104
Toronto, ON M5G1G6
Canada

Selection of Applicants

Applications will be reviewed after the application deadline. Applicants who are considered may be contacted for an interview. The decision of the Faculty of Dentistry concerning admission into the Dental Specialty Training and Assessment Program is final. No appeal mechanism exists.

A CAD\$2,000 non-refundable deposit will be required at the time of acceptance. This amount will be applied to the fees providing he/she registers.

Student Affairs and Student Services

Student Affairs at the Faculty of Dentistry

Students are encouraged to discuss directly with instructors any difficulties they are having in specific courses. Financial concerns should be discussed with the appropriate Programs Officer in the Student Services Office or with the Faculty Registrar. The Faculty Registrar, the Director of Student Life or the Associate Dean, Graduate Education as appropriate, are also available for discussions of personal problems, academic or non-academic.

Students who have questions concerning the best way of routing a query to the appropriate office or individual should inquire at the Student Services Office (Room 104).

Student Representation

There are two separate societies representing students at the Faculty.

Dental Students' Society - (DSS)

The Society is the official undergraduate organization in the Faculty of Dentistry. Every full-time undergraduate student in the Faculty is automatically a member of the Society, which organizes and controls the athletic, dramatic, literary, social and other group activities of the student body.

Graduate and Postgraduate Dental Students' Society - (GPDSS)

The Society is the official graduate organization in the Faculty of Dentistry and is affiliated with the Graduate Students' Union of the University of Toronto. Each full-time graduate student in the Faculty is a member of the Society, which organizes social and other extra-curricular group activities of the graduate student body.

Student Services at the University of Toronto

The following services are available to all students registered in the Faculty of Dentistry, University of Toronto.

[Health Sciences Writing Centre](#)

The Health Sciences Writing Centre is a teaching facility open to both undergraduate and graduate Dentistry students. It offers free 45-minute sessions with experienced tutors. Dentistry students may bring in research papers or essays for any course, at any stage, and will receive help in developing their capacities to plan, research, organize, write, and revise their work. Workshops on academic skills of specific interest to Dentistry students are also offered.

The Centre has four offices including one located in the Faculty of Dentistry. Phone (416) 978-3448 to book an appointment. Website: <http://www.hswriting.ca/>

Accessibility Services for Students

Special Services offers liaison with academic and administrative departments and off-campus agencies. The service provides advocacy and support for students with a wide range of hidden or obvious disabilities and health considerations and incorporates a learning disability division. Facilities include provision of adaptive devices and equipment, tutoring, notetaking and alternative exam conditions for those eligible, on-campus transportation where appropriate, access to computer labs, and personal and career counselling. The objective of the service is to facilitate the inclusion of students with special needs into all aspects of university life. Students are encouraged to discuss their individual needs with a member of the Accessibility Services staff, and all discussions are confidential. Disability Services also provides information and resource materials on health conditions and disability related issues.

The office is located at 455 Spadina Avenue (just North of College Street), 4th Floor, Suite 400. For more information please call (416) 978-8060 (Voice) or (416) 978-1902 (TDD) FAX # (416) 978-8246. They can also be reached at accessibility.services@utoronto.ca.

Career Counselling and Placement

The Koffler Student Services Centre, 214 College St., University of Toronto, offers career counselling and placement services to all University of Toronto students and recent graduates. Career counselling is available on a one-to-one basis, as well as in group sessions dealing with such topics as career planning, occupational research, resume and interview preparation, job hunt skills and strategies. Placement services include part-time, summer and permanent job services, including the on-campus recruitment program for graduating students. The career library at the Centre supplements the counselling and placement services with employment, career and education information, marketing surveys, as well as directories of business and industry.

Website: <http://www.studentlife.utoronto.ca/cc>

Housing Services

Most of the University's students live at home in Toronto. The balance is divided equally between those who reside in a student residence and those who locate off-campus accommodation about thirty to forty-five minutes travel time from classes. The University of Toronto Housing Service in the Koffler Student Services Centre also serves as a year-round source of up-to-date residence information as well as other information a student might need to assist in locating and arranging suitable housing. Each campus Housing Service maintains listings of available dwellings advertised by city landlords and by students seeking others to join them.

Residences

Residences for single, graduate and undergraduate students are located on all three campuses of the University. Students wishing more information should contact the Housing Service for a list of residences with address and phone number, and cost. At the Housing Service on the St. George campus, students may use the Residence Information Terminal to view photographs and get information for the residences on all three campuses.

Family Housing

Family housing is available in 713 apartments on the St. George campus. Priority for the unfurnished university apartments is given to student families. The term "family" refers to students residing with their dependent children and to childless couples in a permanent relationship. Waiting periods for these apartments may vary depending on the time of year and the type of apartment requested so it is advisable to apply as soon as a student is seriously considering attending the University. Students may submit an application for Family Housing before being given an offer of admission to the University. Contact the Housing Service to receive an information/application package.

Off-campus Housing

The off-campus housing market is currently very tight for tenants in Toronto, and there is limited accommodation available which is affordable for most students. Students who are looking for off-campus housing use the lists of advertisements displayed in their Housing Services as they would the "classified" section of a newspaper, locating accommodation to meet their needs while staying in temporary housing which they arrange in advance of their arrival. At the Housing Service on the St. George campus, students may also search on-line by type(s) of accommodation, area(s) of the city, and price range desired. The Housing Service at the Koffler Student Services Centre will provide a list of temporary accommodation on request.

For the winter academic session, some students rent their long-term housing from August 1 or October 1, avoiding the September 1 occupancy date which is popular with students at most post-secondary educational institutions in the city. Housing is usually advertised about four to six weeks in advance of the date it becomes available for occupancy and it generally takes one to three weeks for a student to locate suitable accommodation, depending on the type of housing desired and budget. *Since accommodation is not inspected, the quality cannot be estimated or guaranteed. Therefore it is very important for students to meet with the landlord and inspect the premises before entering any agreement.*

Cost of Student Housing

Most of the residences have a compulsory meal plan. As a guideline, for the 2019-2020 school terms, the cost of residence with a full meal plan was approximately \$11,200 to \$19,500 for the eight-month academic session. Modified meal plans are available in some residences. The cost of a residence providing cooking facilities but no meal plan will be approximately \$10,000 to \$10,300. Fees are usually paid in two installments at the beginning of each of the four-month fall and spring terms. For 2019-2020, rent for the university family housing ranged from approximately \$769 to \$1,261 depending on the location and size of the unit, and is payable monthly. Housing Rooms in shared houses or apartments off-campus generally cost students \$600 to \$1,000 per month. However, a student requiring a private apartment off-campus usually pays \$1,100 to \$1,400, \$1,100 to \$1,300 or \$1100 to \$1650 for a bachelor, one- or two-bedroom unit respectively. A three-bedroom apartment will usually rent for \$1,633 to \$2,400.

More information can be obtained from the following office:

University of Toronto Housing Service, St. George Campus
Koffler Students Services Centre, 214 College Street
Toronto, ON, Canada, M5T 2Z9
Phone: (416) 978-8045;
Fax: (416) 978-1616
Email: housing.services@utoronto.ca;
Website: <http://www.studentlife.utoronto.ca/hs>

Office of the University Ombudsperson

As part of the University's commitment to ensuring that the rights of its individual members are protected, the University Ombudsperson investigates complaints from any member of the University not handled through regular channels. The Ombudsperson offers advice and assistance and can recommend changes in academic or administrative procedures where this seems justified. In handling a complaint, the Ombudsperson has access to all relevant files and information and to all appropriate University officials. The Ombudsperson handles all matters in strict confidence, unless the individual involved approves otherwise. The Ombudsperson is independent of all administrative structures of the University and is accountable only to Governing Council.

For further information, write or telephone:

The Office of the University Ombudsperson, McMurrich Building, First Floor, Room 102
12 Queen's Park Crescent West, Toronto, Ontario, M5S 1S8
Telephone: (416) 946-3485
E-mail: ombuds.person@utoronto.ca
Website: <http://ombudsperson.utoronto.ca/>

Sexual Harassment Education, Counselling and Complaint Office

The University of Toronto does not tolerate any form of sexual harassment and is actively endeavoring to provide an environment free of it. All forms of sexual harassment, from verbal abuse to inappropriate touching to sexual assault are covered by the University's policy. The Sexual Harassment Education, Counselling and Complaint Office was established to educate the University community on this issue. The Sexual Harassment Officer also provides counselling to those people who are the object of unwanted sexual attention and to those who are alleged to have sexually harassed someone, as well as implements the formal complaint procedure. Contacting the Sexual Harassment Officer is not a commitment to file a complaint and at any point a complaint can be dropped.

The services of the Sexual Harassment Office are available to all members of the University. All complaints and requests for information will be kept completely confidential unless the individuals involved approve otherwise.

For information contact:

The Sexual Harassment Office, University of Toronto
215 Huron Street, 6th Floor, Suite 603
Toronto, Ontario, M5S 1J7
Telephone: (416) 978-3908
Website: <http://sho.utoronto.ca/>

[Family Care Advisor](#)

Many students balance family obligations with their studies. The University of Toronto is committed to fostering a "family friendly" learning and working environment.

The Family Care Advisor provides counselling and referral services to students who require child care, elder care or other forms of assistance with family responsibilities. Additional services include support groups, a newsletter and guest speakers. The drop-in resource centre contains a library of material on family issues.

The Family Care Advisor and the Resource Center are located at the Koffler Student Services Centre, University of Toronto, 214 College Street, Main Floor, Toronto, Ontario, M5T 2Z9. Students are asked to telephone (416) 978-0951 to arrange an appointment in advance.

E-mail: family.care@utoronto.ca; Website: <http://www.familycare.utoronto.ca/>

Awards, Financial Assistance and Fees

The following describes the various scholarships, prizes, bursaries and loan funds available to students in the Faculty of Dentistry.

Scholarships and Prizes are awarded to students of high academic standing and generally financial need is not taken into account. In most cases application is not required.

Bursaries are awarded to students who can show a need for financial assistance and have a satisfactory academic record. Bursaries listed here are, with few exceptions, restricted to dental students.

Loan Funds are available to students who need further financial assistance and are in clear standing. The Kellogg loan fund is restricted to students in this Faculty. Application is required, and a formal loan agreement must be signed.

As the value of an endowed award is dependent on the income of a fund, it is possible that the value at time of payment may differ from the amount shown here. In the case of awards not endowed, payment will be dependent on the receipt of the annual amount from the donor.

Awards for graduate study and research will be paid in one installment as soon as possible after the granting of the award. All other awards will be credited first against outstanding fees and the balance will be paid to the student.

To be eligible for any award, students must achieve standing satisfactory to Faculty Council in the overall work of the year. Students repeating courses are not eligible for any prizes or scholarships associated with the courses being repeated. In the case of book awards, Faculty Council reserves the right to approve the selection of the book to be presented.

There are sources of financial aid, not specifically directed to students in dentistry that are not listed here. Information about these funds may be obtained from the Student Services Office.

Scholarships and Prizes for the D.D.S. Program

Admission

Antony and Hedy Kalamut Award

This award was established by Dr. Frank Kalamut, a part-time instructor in the dental program, in honour of his parents. This award is to be given to a student upon entrance into the first year of the D.D.S. program on the basis of financial need. Not tenable with other admission awards. First awarded in 2005.

George and Olga Haas Scholarship at the University of Toronto

This endowment was established by Dr. Daniel Haas and matched by the Boundless Promise Program (BPP), in memory of his parents, who placed tremendous value on higher education. It is to be awarded

to D.D.S. students in first year of the program on the basis of financial need and academic merit.

Javenthly Soobiah Admission Scholarship

This award was established by Miss Javenthly Soobiah in the Faculty of Dentistry. The monetary award will be given to the student entering the First Year of the D.D.S. program who shows outstanding academic ability based upon application documents. Not tenable with other admission scholarships. First awarded in 1992.

Somborac Admission Scholarship

This award was established by Mrs. Roxy Somborac, the widow of Dr. Stephen Somborac, Class of 1959, and the mother of Dr. Milan Somborac, Class of 1964, in their honour. The monetary award will be given to the student entering First Year of the D.D.S., program who shows outstanding academic ability based upon admission documents. Not tenable with other admission scholarships. First awarded in 1991.

The Albert Dahlberg Admission Scholarship

This award was established by Dr. John Mayhall, a professor in the Faculty of Dentistry, in honour of the memory of Dr. Albert Dahlberg, one of the founders of the field of dental anthropology. The award is to be given to a student upon entrance into the first year of the D.D.S. program on the basis of financial need. Academic merit will also be considered. The student must have completed a graduate degree or equivalent before enrolling in the D.D.S. program. First awarded in 1998.

The Dr. Paul LaDelfa Memorial Admission Scholarship

This award was established in memory of Dr. LaDelfa, Class of 1982, who died in May 1996 in a tragic car accident. This award is to be given to a student upon entrance into the first year of the D.D.S. program on the basis of financial need. Academic merit will also be considered. First awarded in 1998.

Tom Lykos Memorial Scholarship

This award was established by members of the class of 1989, family and friends of Tom Lykos to honour his memory. Tom died (in 1987) while in the second year of the program. The monetary award is given to a student entering first year that shows outstanding academic ability. First awarded in 1989.

First Year

Dr. Myers L. Stitt Scholarships

These awards were established in honour of the memory of Dr. Myers Lawson Stitt, Class of 1927, by his son, Mr. Bert Stitt and family. These awards are to be given to the students with the highest overall academic achievement in the work of First Year Dentistry. The monetary value of the awards will depend upon the recipients' financial need. First awarded in 1998.

Isaak Orfanidis Achievement Award

This award was established by family, friends and members of the Class of 1992 to honour the memory of Isaak Orfanidis, an undergraduate dental student who died in an airplane crash the summer following his first year. The monetary award from the endowment is to be awarded to the most outstanding first year full time student based on academic achievement and extra-curricular activities in the Faculty. First awarded in 1990.

James Branston Willmott Scholarships

The James Branston Willmott Scholarships are the gift of the Royal College of Dental Surgeons of Ontario in memory of James Branston Willmott, D.D.S., LL.D., who was Dean of the School of Dentistry of the Royal College of Dental Surgeons from 1875 to 1915.

Schwetz Gross Anatomy Scholarships

An endowment has been established by Dr. Viola Labodowsky to commemorate the late William Stephen Schwetz, D.D.S., an oral surgeon on the Faculty staff until his death in 1968. Monetary scholarships are awarded annually to the First Year students with the highest and second highest mark in Gross Anatomy. Honours' standing is required. First awarded in 1977.

The Federation of Chinese Canadian Professionals (Ontario) Education Foundation Scholarships

Two annual awards of \$500 each have been established by the F.C.C.P. (Ontario) Education Foundation. These will be given to (1) the most outstanding student in Dental Anatomy & Occlusion in first year; and (2) the most outstanding student in Clinical and Theoretical Periodontics in third year. First awarded in 1986.

The J. N. Wilkinson Prize

Through a bequest from the late Jonathan Norman Wilkinson, D.D.S., an annual prize has been established comprising a book or subscription, to be awarded to the most outstanding student in Microbiology. Honours standing in the subject is required. First awarded in 1971.

Zindart Award in Community Dentistry

A monetary award of \$500 has been established by the Federation of Chinese Canadian Professionals (Ontario) Education Foundation. It will be awarded to the most outstanding student in First Year Dental Public Health. To be eligible, the candidate must complete the first year of the course in Dentistry with standing satisfactory to the Faculty Council. First awarded in 2000.

Second Year

Albert E. Webster Memorial Scholarship

This scholarship was established, with funds donated by members of the dental profession, in memory of the late Albert E. Webster, M.D., D.D.S., LL.D., a member of the staff from 1893 to 1936, and from 1915 to 1923 Dean of the School of Dentistry. The first award was made in 1940, and was for Fourth Year students only. A bequest to the Faculty in 1990 from Dr. Howard George Lloyd to further honour Dr. Webster permitted the extension of this award to Second Year students as well. The monetary income from the endowment fund will provide two equal awards for the Second and Fourth Year students who are the most outstanding in the subject of clinical Restorative Dentistry over First and Second, and Third and Fourth Years respectively. First awards under the new terms were made in 1991.

Dr. Howard Rocket Preventive Scholarships

These awards were established by Dr. Howard Rocket, Class of 1972. A maximum of four awards will be made each year; two awards to the two students with the most outstanding marks in Second Year Preventive Dentistry and two awards to the two students with the most outstanding marks in Third Year Preventive Dentistry. The monetary awards will depend upon the recipients' financial need. First

awarded in 1998.

Dr. I. Ben Ezra Scholarship

The estate of the late Isaac Ben Ezra, D.D.S., has provided for the establishment of a scholarship in the Faculty of Dentistry and the Faculty of Medicine. An award will be given alternating years to the most outstanding student in Restorative Dentistry in Second Year. The award will consist of the annual income from the fund. First awarded in 1978/79.

Dr. Marvin Kopel Memorial Scholarship in General Pathology

This scholarship was established by colleagues, friends and family of Dr. Kopel. The annual monetary award is awarded to the most outstanding student in Second Year in the subject of General Pathology. First awarded in 2003.

Frank Martin Scholarship

The Crown and Bridge Study Club offers a prize of \$2,000 and a certificate to the most outstanding student in the preclinical technique courses of Prosthodontics and Restorative Dentistry in second year. First awarded in 1963/64.

James Branston Willmott Scholarships

The James Branston Willmott Scholarships are the gift of the Royal College of Dental Surgeons of Ontario in memory of James Branston Willmott, D.D.S., LL.D., who was Dean of the School of Dentistry of the Royal College of Dental Surgeons from 1875 to 1915. In its present form the award comprises two scholarships of \$500 each, presented to the students with the highest overall achievement in First and Second Years respectively.

Robert S. Locke Scholarship in Anaesthesia

This scholarship was established by friends and associates of Dr. Locke upon his retirement as Head of Anaesthesia from 1960 to 1990. The monetary award is awarded to the most outstanding student in Second Year in the subject of Anaesthesia. First awarded in 1991.

S. G. Bridgman Prize

The S. G. Bridgman Prize was established in memory of Shaun Bridgman who died in 1973 while an undergraduate in the Faculty, and is donated by the Dental Students' Society. A permanent plaque is engraved with the names of winners, each of whom receives a replica. It is awarded annually to the most deserving student in Second Year Dentistry on the basis of extra-curricular activities, leadership qualities and scholastic attainment. First awarded in 1974.

The Sally and Bernard Gruszko Memorial Scholarship

This scholarship was established by Ms. Helen Grad, Faculty Pharmacist and Assistant Professor and a member of the Faculty of Dentistry since 1980, in memory of her parents, Sally and Bernard Gruszko. This scholarship is awarded to a DDS II student with the highest mark in Second Year Pharmacology. First awarded in 2006.

Wallace Seccombe Memorial Scholarship

The Wallace Seccombe Memorial Scholarship was established with funds donated by members of the dental profession, to commemorate the life and work of the late Wallace Seccombe, D.D.S., who was an

officer of the School of Dentistry and of the Faculty of Dentistry for many years, and Dean from 1923 until his death in 1936. The monetary scholarship, will be awarded to the student who, having completed without condition the First and Second Years, shows outstanding ability in the subject of Preventive Dentistry. First awarded in 1940.

Willa Wen-Lan Liu Chou Award

The estate of the late Willa Wen-Lan Liu Chou, D.D.S., has provided for the establishment of scholarships to be awarded to the student with the highest overall achievement in the work of First and Second Years and the student with the highest overall achievement in the work of Third and Fourth Years. The award consists of the annual income to be awarded equally to a student in Second and Fourth Years. First awarded in 1981/82.

Third Year

Dental Services Group of Toronto Inc. Award

Formerly the Posen and Furie Award, the Dental Services Group of Toronto Inc. awards \$1,000 annually to the most outstanding student in Third Year clinical and didactic Prosthodontics. First awarded in 1952.

Dentistry Class of '23 Scholarship

A gift of the members of the 1923 class is awarded annually to the student with the highest overall achievement in academic and clinical courses in Third Year. The value of the monetary scholarship is the annual income from the endowment fund. In the event that no award is made in any session, two scholarships may be awarded in a subsequent session, the second going to the student with second highest overall achievement. First awarded in 1947.

Dr. Howard Rocket Preventive Scholarships

These awards were established in 1998 by Dr. Howard Rocket, Class of 1972. A maximum of four awards will be made each year; two awards to the students with the most outstanding marks in Second Year Preventive Dentistry and two awards to the students with the most outstanding marks in Third Year Preventive Dentistry. The value of the monetary awards will vary and will depend upon the recipients' financial need.

Dr. Isaac Ben Ezra Scholarships

The estate of the late Isaac Ben Ezra, D.D.S., has provided for the establishment of scholarships in the Faculty of Dentistry and the Faculty of Medicine. Every other year an award will be given to the most outstanding student in Restorative Dentistry in Second Year and a second award to the most outstanding student in Oral Surgery in Third Year. Each award will consist of one-half the income from the fund. The awards will alternate with the Schwetz Memorial Scholarships given in the same subject areas. First awarded in 1978/79.

Dr. John A. Sherman Memorial Award

This monetary award was established by Mrs. John A. Sherman in memory of her late husband, Dr. John A. Sherman, a graduate of the class of 1924, who gave great leadership to dentistry across the world and also served the profession as an inventor of dental equipment. The winner of this award will be the student who, having satisfactorily completed the Third Year of the course in Dentistry, is judged to be

most outstanding on the basis of academic standing (didactic and clinical), extra-curricular activities, character and leadership qualities. First awarded in 1985.

Helen Chomyn Prize in Orthodontics

This prize was established to honour Mrs. Helen Chomyn's retirement from the Faculty of Dentistry in June 1988 following 27 years of loyal and devoted service. A monetary award is awarded to the most outstanding third year student in clinical and theoretical Orthodontics. First awarded in 1989.

International College of Dentists (Canadian Section) Scholarship

Through the generosity of the International College of Dentists (Canadian Section), an annual scholarship of \$1,000 and a plaque is offered. This scholarship is to the most outstanding student based on scholastic record in Third Year and participation in extra-curricular activities. First awarded in 1956.

Michael Hagen Memorial Scholarship in Restorative Dentistry

This award was established by the Hamilton Dental Research Study Club and various donors in honour of Dr. Michael Hagen who was devoted to achieving excellence. Dr. Hagen graduated from U of T in 1972 and died in 2007. This scholarship is awarded to an outstanding student in Third Year for excellence in both theoretical and clinical restorative dentistry. The value of the award is the annual income on an endowment of \$30,000. First awarded in 2008.

Schwetz Memorial Scholarships

Income from an endowment of \$7,000, established by Dr. Viola Labodowsky in memory of William Stephen Schwetz, D.D.S, an oral surgeon on the Faculty staff until his death in 1968, generates these awards. An award will be made annually to a Third Year student with the highest mark in Oral Surgery. First awarded in 1979/80.

Students-for-Students Extra Curricular Award of Excellence

This award was founded by the proceeds from Dentantics 2005 and 2006 and is awarded to a DDS third year student or students who have promoted the collegial environment of the Faculty of Dentistry. This contribution may include participation in a variety of extracurricular activities such as Dentantics, student mentorship, community outreach programs and sports while still achieving a strong academic record. First awarded in 2007.

The Earl West Fuller Award

The estate of Earl West Fuller, D.D.S., has provided for the establishment of an award to outstanding students in Operative Dentistry--clinical. The value of the award is the annual income on a trust fund of \$15,000. First awarded in 1979/80.

The Federation of Chinese Canadian Professionals (Ontario) Education Foundation Scholarships

Two annual awards of \$500 each have been established by the F.C.C.P. (Ont.) Education Foundation. These will be given to (1) the most outstanding student in Oral Anatomy in first year; and (2) the most outstanding student in Clinical and Theoretical Periodontics in third year. First awarded in 1986.

The University of Toronto Chinese Dental Students' Association Scholarship

The University of Toronto Chinese Dental Students' Association has established a scholarship to be awarded to the most outstanding student in Third Year in the subject of Medicine and Oral Medicine. The award consists of the annual income from an endowment. First awarded in 1990.

The William J. Evon Scholarship

This scholarship was established by friends and colleagues of the late William J. Evon, D.D.S. It is awarded annually to the most outstanding student in Pharmacology. Honours' standing in the subject is required. The value of the scholarship is the annual income from the endowment fund. First awarded in 1967/68.

Wroblewski Memorial Prize

This prize was established through the generosity of the family, friends and associates of the late P. A. Vincent Wroblewski, D.D.S., Dip. Pedodontics. The award consists of the annual income from an endowment and will be given to the Third Year student displaying superior ability in the field of Pediatric Dentistry. The student's interest, attitude and conduct will also be considered in making this award. First awarded in 1978.

Fourth Year

3M Clinical Award

To be awarded to a D.D.S. 4 student who has demonstrated excellence and superior aptitude in the use of conservative restorative materials in the final year of the clinical undergraduate program.

Alpha Omega Fraternity Prize

This prize, the gift of the Alpha Omega Fraternity, is awarded annually to the student with the highest overall achievement in the four years of dental studies in this Faculty. First awarded in 1950.

John A. Bothwell Scholarship

The estate of the late John A. Bothwell, D.D.S., has provided for the establishment of a scholarship, to be awarded every two years to the most outstanding student in clinical Prosthodontics. The value of this monetary scholarship consists of the income generated over two-year periods from a trust fund. First awarded in 1959.

The J. G. Bourassa Cup

The Bourassa Cup is presented annually to the most outstanding member of the graduating class in Dentistry on the basis of academic proficiency and extra-curricular activities. It was provided by classmates of the late Joseph Gregory Bourassa, an outstanding member of the class of 1959, who lost his life a few months after graduation. The winner must obtain standing each year without supplementals or conditions and have significant achievements in the field of community service or participation in athletics and preferably both. The cup is kept permanently in the Dentistry building and the winner receives a commemorative plaque. First awarded in 1961.

Harold Keith Box Prizes

From an endowment given by Dr. Hubert W. deRenzy in recognition of the contributions to dentistry made by the late H. K. Box, Ph.D., D.D.S., and now co-sponsored by The Ontario Society of Periodontists, two medals are awarded annually, to two students who are the first and second most outstanding respectively in clinical Periodontics. First awarded in 1944.

The Canadian Academy of Periodontology Prize

The Canadian Academy of Periodontology has established an award of the value of \$400 which is to be

presented to the most outstanding student in the field of clinical Periodontics. First awarded in 1971.

Willa Wen-Lan Liu Chou Award

The estate of the late Willa Wen-Lan Liu Chou, D.D.S., has provided for the establishment of scholarships to be awarded to the student with the highest overall achievement in the work of First and Second Years and the student with the highest overall achievement in the work of Third and Fourth Years. The award consists of the annual income to be awarded equally to a student in Second and Fourth Years. First awarded in 1981/82.

Crown and Bridge Study Club (Toronto Academy) Scholarship

The Crown and Bridge Study Club (Toronto Academy of Dentistry) has established an award comprising \$2,000 plus a certificate to be awarded to the most outstanding student in the Crown and Bridge component of clinical Restorative Dentistry. First awarded in 1974.

Davis Orthodontics Award

This award was established by Dr. Kevin Davis and is awarded to a Fourth Year dental student who has an interest or shows promise in Orthodontics. Not tenable with other Orthodontic awards. First awarded in 2006.

Dean's Gold Medal

At the Dean's discretion a gold medal will be awarded to a student with exceptional achievement throughout the four years. First awarded in 1978/79.

Dean's List

Awarded to the top ten percent of the fourth year graduating class.

Edward G. Dore Award

This award was established by friends and family in memory of Dr. Edward G. Dore, Class of 1935 and Diplomat in Dental Oral Surgery in 1952. The income from the endowed fund will be used to purchase a book in Oral Surgery or related field to be given to the Fourth Year student who demonstrates excellence in clinical Oral Surgery. This award is not tenable with other awards in Oral Surgery. First awarded in 1992.

Irwin Fefergrad Award

This award was established by Mr. I. Fefergrad and is awarded to one of the top fourth year dental students with a strong emphasis placed on ethics from the Ethics, Jurisprudence and Practice Administration course (DEN406Y) who through class participation has shown a community minded ethical interest. First awarded in 2005.

Dr. Paula Gregory Memorial Award

This award was established in memory of Dr. Paula Gregory, who died in 1986, by her classmates in the Class of 1980. The monetary award is given to the graduating student who has been involved in programs offering dental services to the under-privileged or handicapped, and who has also demonstrated academic proficiency and involvement in extra-curricular activities during the four years of the D.D.S. program. First awarded in 1988.

George Hare Endodontic Study Club Scholarship

The George Hare Endodontic Study Club has established a scholarship in honour of George C. Hare who taught at the Faculty for twenty-five years. The scholarship is for \$500 and a plaque and is awarded to the most outstanding Fourth Year student in clinical Endodontics. First awarded in 1977.

George Hare Essay in Endodontics Award

The West Toronto Dental Society has established the George Hare Essay in Endodontics Award consisting of an annual donation of \$250 and a plaque. All fourth year students are eligible to compete for this award by writing an essay on the topic prescribed by the Endodontics Department as the elective essay topic for that year, and the award is given to the student who writes the best essay. First awarded in 1987.

Hugh Alexander Hoskin Scholarship

This prize was established in 1954, through the generosity of friends and associates of the late Hugh Alexander Hoskin. The award is made annually to the most outstanding student in clinical Oral Diagnosis. The value of the award is the annual income from an endowment. First awarded in 1955.

William R. Jackson Award

This monetary award is presented annually on the basis of superior ability in clinical Prosthodontics, taking into account the student's interest, attitude and conduct. It was established by Mrs. J. D. McLean in honour of her father, W. R. Jackson, D.D.S., who was a member of the Faculty for twenty-one years. First presented in session 1968/69. Its value is \$500. The award is not tenable with any other award based on the subject of Prosthodontics.

Dr. Alan K. Joe and Family Scholarships in Orthodontics

These scholarships were established through an endowment from the Dr. Alan K. Joe Family Foundation. There are two monetary awards and a plaque for each recipient and are to be given to two graduating students who have shown academic excellence, aptitude and initiative in Orthodontics throughout the undergraduate Orthodontic program. This award is not tenable with other Fourth Year awards in Orthodontics. First awarded in 1993.

Joseph Harker Johnson Scholarship

This award was established by former students and professional colleagues "in recognition and honour of Joseph Harker Johnson, D.D.S., formerly Professor of Oral Surgery and Anaesthesia, Librarian of the Faculty, Curator of the Museum, distinguished author and outstanding representative of his profession." It is awarded to the most outstanding student in clinical Oral Surgery and Anaesthesia. Its annual value is the income from the endowment fund. First awarded in 1967/68.

Barry H. Korzen Endodontic Award

This award was established by friends and colleagues of Dr. Korzen to honour his term as Head of Endodontics from 1978 to 1989. The annual income from the endowment fund will be awarded to the Fourth Year student with the highest overall achievement in Second, Third and Fourth Year Endodontics. First awarded in 1992.

Dr. Norman Levine Award in Pediatric Dentistry and Orthodontics

An endowment for this award was established upon the retirement of Dr. Levine as the first Director of the Qualifying Program in June 2001, by his friends and colleagues. First awarded in 2002. The Qualifying program graduated the last class in June 2007 and the award was changed to be awarded to a Fourth Year D.D.S. graduating student with the highest cumulative standing in the didactic and clinical aspects of third and fourth year pediatric dentistry and orthodontics. First awarded under the new terms in 2008.

Dr. Charles Hyman Moses Award

This award was established by Dr. J. H. Griss in honour of Dr. Charles Hyman Moses. A monetary award will be awarded to the student who shows superior ability in clinical Prosthodontics. First awarded in 1988.

Dr. Michael Oliver Memorial Scholarship

An endowment for this award was established by a generous donation from the estate of the late Dr. Oliver. Dr. Oliver was a role model for aspiring dentists and taught periodontics in our faculty from 1974-1993. He was tragically killed in a car accident in 2003. The award is for the student in fourth year who has the most promise to contribute to research in Periodontology. This is based on summer studentships, papers and abstracts, as well as general interest in research. First awarded in 2004.

Oral Anatomy Scholarship

The Oral Anatomy Scholarship was established in 1955 by an anonymous donor. This scholarship of \$250 is awarded to a student with honours standing in the subject of Oral Anatomy in First Year and who is the most outstanding in the related subjects in Fourth Year, viz. clinical Oral Surgery and Orthodontics. First awarded in 1955.

Orthodontic Book Prize

An anonymous donor has generously provided for the annual award of a selected dental textbook to the most outstanding student in the subject of clinical Orthodontics. First awarded in 1959.

Dr. Kenneth F. Pownall Memorial Award

Awarded to the 4th year DDS student with the highest overall academic achievement having entered through the IDAPP program.

Prosthodontics Prize

The Prosthodontics Prize, donated in 1948 by the late F. L. Cole, D.D.S., will be awarded to the most outstanding Fourth Year student in the field of clinical Prosthodontics. The monetary award is derived from the income from the trust fund. First awarded in 1949 and the terms revised in 1974.

Dr. Boris Pulec Implant Dentistry Scholarship

This award was established by Dr. Boris Pulec, an alumnus of the University of Toronto, Faculty of Dentistry, a general practitioner and an active proponent of implant dentistry. The award will be awarded to a fourth year graduating student with the highest combined academic average in the fourth year courses in the programs of Oral and Maxillofacial Surgery, Periodontics and Prosthodontics. First awarded in 2006.

Maxwell Rockman Memorial Prize

In honour of the late Maxwell Rockman, D.D.S., former Chairman of the Department of Radiology, a book is given annually by his son, Dr. P.S. Rockman. The award is based on outstanding performance in clinical Radiology, and was first presented in 1969/70.

Lynda Sellars Award in Comprehensive Patient Care

This award was established by Ms. Corrine Sellars, daughter of Lynda Sellars, friends and colleagues in memory of Lynda who worked in the Faculty of Dentistry, Student Services Office for 18 years. The award will be awarded to the graduating student(s) who demonstrates the greatest overall proficiency with respect to the assessment, planning, treatment and management of assigned patients in the multi-disciplinary Comprehensive Care Program. First awarded in 2011.

Dr. Edward G. Sonley Book Award in Clinical Restorative Dentistry

Dr. David Gardner established this award in honour of Dr. Sonley upon his retirement as Director of Clinics in 1997. The prize, consisting of a book to be selected by the recipient and purchased from the annual income from the endowment, is to be awarded to the most outstanding student in the subject of Clinical Restorative Dentistry in Fourth Year. First awarded in 1998.

Paul Takahashi Scholarship

Through the generosity of Dr. Paul Takahashi, of Toronto, an annual scholarship of the income from a trust fund is awarded to the student who is the most outstanding in clinical Periodontics. First awarded in 1959.

Piret Truuvert Memorial Award

his award was established in memory of Dr. Piret Truuvert, who died in 1990, by her classmates in the class of 1978. The monetary award is given to the graduating student who has the highest overall achievement in Second, Third and Fourth Year Preventive Dentistry. The recipient will be selected on the basis of didactic and clinical performance and extramural activities in Preventive Dentistry. First awarded in 1991.

Bridget Wang Memorial CCP Award

Dr. Laura Tam, UofT faculty member and her family and friends established this award in memory of her daughter, Bridget Wang, a DDS 1 UofT Faculty of Dentistry student who died tragically on December 5, 2017. To be given to the graduating student(s) who demonstrated the most outstanding combined performance in their 3rd and 4th years of the Comprehensive Care Program at the Faculty of Dentistry and who finished the 4th year course with exemplary standing.

Albert E. Webster Memorial Scholarship

This Scholarship was established, with funds donated by members of the dental profession, in memory of the late Albert E. Webster, M.D., D.D.S., LL.D., a member of the staff from 1893 to 1936, and from 1915 to 1923 Dean of the School of Dentistry. The first award was made in 1940, and was for Fourth Year students only. A bequest to the Faculty in 1990 from Dr. Howard George Lloyd to further honour Dr. Webster permitted the extension of this award to Second Year students as well. The annual income from the endowment fund provides two equal awards for the Second and Fourth Year students who are the most outstanding in the subject of clinical Restorative Dentistry over First and Second, and Third and Fourth Years respectively. First awarded under the new terms in 1991.

Dr. Horace Wells Prize

In 1951 the Canadian Oral Prophylactic Association donated the sum of \$1000, together with a completed die and gold medal, to recognize interest and accomplishment in dental anaesthesia and to commemorate Dr. Horace Wells who introduced the clinical use of nitrous oxide. The Dr. Horace Wells Medal will be awarded annually to the most outstanding graduating student in Anaesthesia. The first award was made in 1951 and the name was changed from the Canadian Oral Prophylactic Association prize to the Dr. Horace Wells Prize in 2001.

Zindart Award in the Comprehensive Care Program

An annual award of \$500 has been established by the Federation of Chinese Canadian Professionals (Ontario) Education Foundation. This award is given to the most outstanding student in the Fourth Year Comprehensive Care Program. First awarded in 2000.

Rotating Awards for the D.D.S. Program

These awards are based on a subject chosen and announced each year by Faculty Council. The awards are given to the most outstanding student in the subject.

Elsevier Canada Health Sciences Book Award (Varying Years)

Through the generosity of Elsevier Canada Publishing Company, a gift certificate is awarded from the Elsevier Canada (formerly Harcourt Brace & Co.) publishing list. First awarded in 1957/58 and amended in 2005.

Royal College of Dental Surgeons Scholarship in Basic Sciences (First Year)

Through the generosity of the Royal College of Dental Surgeons of Ontario, an award is given in the amount of \$350. Honours' standing is required. First awarded in 1971/72.

Henry Schein Canada Inc. Award

(Varying Years)

This Scholarship of the value of \$400 is donated annually to commemorate the first President of the Ash Temple Limited Company. Honours' standing in the subject is required. First awarded in 1947 and the name changed in 2006.

Summer Funding for D.D.S. Students**Dental Alumni Association Summer Student Research Award**

In 1957, the University of Toronto Dental Alumni Association established a Loan Fund, which was designed to help students in need. In 1995, this fund was converted from a loan fund to a fund to provide support for undergraduate students to do research in the summer. It is awarded to the best undergraduate student in the D.D.S. program who is selected for a summer student research position and funding is provided at the same level as to other summer research students. To be considered for this award, a student must apply for a summer student research position in the Faculty.

Dr. Robert E. Echlin Memorial Fund in Outreach Dentistry

This fund was established by Mrs. M. L. Echlin, her family and friends in memory of Dr. Robert E. Echlin. It is intended that the annual income from the endowment be used to provide expenses (e.g., board, lodging, travel) and a small honorarium if possible to enable the Faculty to send students to work in underserved areas with underprivileged people (the life-long interest of Dr. Echlin). Students will be permitted to spend a period sometime during their third or fourth dental years with a project or institution providing such levels of dental care.

In practice, the students spend three weeks in the summer following Third Year at Moose Factory in Northern Ontario since the student must be supervised by a dentist recognized by the Faculty.

Students must apply for funding by January 31 each year to the Faculty Registrar in a written proposal detailing their plans. Funding will be granted by the Faculty Council on the advice of the Undergraduate Student Awards Committee. For further information, students should consult the Faculty Registrar.

H. M. Bradley Fund

A legacy was provided to the Faculty by the late Helen Merrill Bradley, the income from which is used for the assistance of students registered in the Faculty of Dentistry. Income from this fund may be used to help defray the travel expenses of undergraduates participating in an official exchange visit to an overseas dental school, providing they are able to furnish evidence of financial need. The income may also be used for the assistance of needy students registered in one of the Faculty's postgraduate programs who are receiving no assistance from any other source. The fund was established and first used in session 1971/72. Application should be made to the Faculty Registrar.

C.I.H.R. Summer Student Scholarship Program

The Faculty receives a number of awards to support undergraduate students in carrying out research projects. One of the major sources of funds is the Canadian Institutes of Health Research Summer Student Scholarship Program, which provides financial assistance for several students to work through the summer months in the research laboratories of Faculty members. On the basis of presentations made by the students concerning their research, some are selected to attend various meetings of the dental research community to present their work.

ODA Summer Research Award

An endowment for this award was established by a generous donation by the Dentistry Canada Fund on the recommendation of the Ontario Dental Association. This will be awarded to undergraduate student(s) at the University of Toronto in the Faculty of Dentistry undertaking summer research.

Pynn Family Travel Award

An endowment for this award was established by a generous donation by Dr. Bruce Pynn and family. Dr. Pynn graduated in 1990 from U of T and obtained his post graduate degree in Oral and Maxillofacial Surgery and has been working in private practice in Thunder Bay since graduation. He has always been active in research having obtained his MSc prior to entering dental school and was fortunate to travel extensively during his research years. Thus this award is targeted to undergraduate students to assist

travel and present their work during those formative years. This award is to be awarded annually to an undergraduate University of Toronto, Faculty of Dentistry student or students with the strongest scientific content at the Faculty of Dentistry's Summer Student program presentations in August to support travel to the IADR Conference. The amount of the award will be based on the annual income from the fund. First awarded in 2006.

The Margaret & Clifford Zettle Award

An endowment for this award was established by a generous donation by Dr. Katherine Zettle, a graduate of the University of Toronto's D.D.S. program ('87) and the M.Sc. in Pediatric Dentistry program ('95) in honour of her parents. This award will be given to two students who have successfully completed third year of the DDS program. This award is for a one month summer elective placement for each student for the provision and care for persons with disabilities (including geriatric care) at one of the Faculty of Dentistry's affiliated teaching hospitals. Payments will be matched through an expendable gift annually.

Dr. Aviv Ouanounou Student Service Learning Outreach Fund

This fund was established in 2017 by Dr. Aviv Ouanounou (OTO), Assistant Professor at the University of Toronto, Faculty of Dentistry. It is intended that this expendable fund be used to provide expenses (e.g., board, lodging, travel) to enable the Faculty to send students in the fourth year of their DDS program to work in Uganda to gain service learning experience and support the local community. Students must apply for the program. For further information, students should consult the Program Director, Dr. Amir Azarpazhooh.

Class of 8T2 Student Service Learning Outreach Fund

This fund was established in 2017 by the Class of 8T2. It is intended that the income generated from this endowment be used to provide expenses (e.g., board, lodging, travel) to enable the Faculty to send students in the fourth year of their DDS program to work in international locations to gain service learning experience and support the local community.

Students must apply for the program. For further information, students should consult the Program Director, Dr. Amir Azarpazhooh.

Dr. Rowshani Student Outreach Fund

This fund was established by Dr. Shervin Rowshani 1T0. It is intended that the income generated from this endowment be used to provide expenses (e.g., board, lodging, travel) to enable the Faculty to send students in the fourth year of their DDS program to work in international locations to gain service learning experience and support the local community.

Students must apply for the program. For further information, students should consult the Program Director, Dr. Amir Azarpazhooh.

Other Funding for D.D.S. Students

National Defence Dental Officer Training Plan

The Canadian Forces offers a plan to assist dental students with the costs of attending Dental School. In addition to pay and allowances for the rank in which the student is enrolled, provision is made for payment of tuition, instruments, supplies, and an allowance for books. To be eligible a student must be able to meet the Canadian Forces standards for enrolment, be a Canadian citizen, and be academically acceptable, without condition, to any one of the four professional years of the Dental Faculty. A term of service in the Canadian Forces as a dental officer is required after graduation.

Full details of the Dental Officer Training Plan may be obtained from the Canadian Forces Recruiting and Selection Unit, 4900 Yonge Street, Suite 600, Willowdale, Ontario, (416) 224-4015, or from the University Liaison Officer, Canadian Forces Base Toronto, Downsview, Ontario, (416) 633-6200 Loc. 205.

Research Awards

Eleanor and Gerald Copeland Grants in Dental Research

This endowment was established by Dr. and Mrs. Copeland and matched by the Government of Ontario pursuant to the Ontario Trust for Student Support (OTSS). It is to be awarded to University of Toronto, D.D.S. students with a desire to work as a summer research assistant.

Tau Tau Undergraduate Research Award

The Tau Tau Chapter of Omicron Kappa Upsilon has established a research award to be awarded to an undergraduate dental student who presents the best research paper or abstract and is invited to present this paper at a North American meeting of a scientific organization. The value of the award is the expenses incurred to a maximum of \$1,000 in presenting the research paper. The winner of the award will be selected by the Research Co-coordinator in consultation with other members of the Faculty. First awarded in 1982.

Graduate Awards and Bursaries

Dentsply Sirona Research Fellowship in Prosthodontics

This award was established by Astra Tech, now under Dentsply Sirona. To be awarded to one or more graduate students in the Faculty of Dentistry, Discipline of Prosthodontics based on academic merit to support Prosthodontic research. First awarded in 2008.

Manly Badner Graduate Orthodontic Award

Donated by Dr. M. Badner, to be awarded each year to purchase a set of premium orthodontic pliers and an appropriate plier's holder. The recipient is a Graduate Orthodontics student completing their final year of the program and is awarded for excellence in the clinical application of biomechanical principles. First awarded in 2005

Gerald I. Baker Scholarship in Oral and Maxillofacial Surgery

To be awarded to a graduate student in the area of Oral and Maxillofacial Surgery. First awarded in 2007.

H. M. Bradley Fund

A legacy was provided to the Faculty by the late Helen Merrill Bradley, the income from which is used for the assistance of students registered in the Faculty of Dentistry. Income from this fund may be used to help defray the travel expenses of undergraduates participating in an official exchange visit to an overseas dental school, providing they are able to furnish evidence of financial need. The income may also be used for the assistance of needy students registered in one of the Faculty's postgraduate programs who are receiving no assistance from any other source. The fund was established and first used in session 1971/72. Application should be made to the Faculty Registrar.

Eleanor and Gerald Copeland Bursary

This award is open to Canadian Citizens with Ontario residency. The award is to be given to a graduate student on the basis of strong academic achievement and financial need, as documented in information provided by the student.

Wilson G. Harron Trust

A bequest of \$2,000,000 was made in 1989 from the estate of Mrs. Norma F. Harron as a memorial to her late husband, Dr. Wilson G. Harron, member of the Class of 1925. The terms of the bequest were to provide scholarships and bursaries for students in the Faculty of Dentistry. The awards established under this trust are listed below.

1. Harron Scholarships

The Faculty of Dentistry, University of Toronto will offer scholarships each year to support students with a demonstrated interest in pursuing research training in preparation for an academic career.

All awardees will be known as Harron scholars. The scholarship will guarantee an income of \$17,000 per annum (plus a differential fee waiver equivalent to the difference between the international and domestic doctoral fees for an international scholar) for up to four years, contingent upon the scholar maintaining an excellent academic performance. Further, applications may be considered for a travel allowance, to a maximum of \$2,000 per annum for presenting research papers at scientific meetings. Carryforward to the next academic year is NOT permitted. It is required that Harron scholars compete for funding from other sources, (O.G.S., CIHR.) for which they are eligible, in the second and continuing years of their program. For Harron scholars who are successful in external competition, the Harron award will be in the form of a fellowship top-up that brings the scholar up to the departmental standard for support. The Faculty may support continuing Ph.D./Specialty students until completion of both programs contingent upon satisfactory progress and success in external scholarship competitions.

Applicants for these scholarships will normally be to the Graduate Department of Dentistry for entry to Ph.D. programs, to M.Sc. programs where transfer to Ph.D. program will be sought within 18 to 24 months, or be Graduate Department of Dentistry Ph.D. candidates who are currently registered in Year 1 or 2 of their Ph.D. program.

Applications for Harron Scholarships must be received by July 31 of the academic year preceding tenure

of the scholarship. Only applicants with excellent academic records will be considered. Applicants short-listed for consideration for scholarship will normally be expected to undergo an interview. The Graduate Department will normally approve up to four new Harron Scholars a year. However, where funds permit, the subcommittee, at their discretion, may award additional scholarships if there are highly deserving applicants, or may provide top-ups to help recruit/sponsor an outstanding student.

2. M.Sc. Dental Specialty Scholarship

This award category provides two annual scholarships; each valued at \$12,000 to be awarded to outstanding students entering M.Sc. Dental Specialty Programs. Each year one scholarship will be allocated to the student with the best record in academic, research and creative activities, the other annual award will rotate among the specialty programs and will be allocated to the student with the best record in academic, research, and creative activities.

3. Bursary for Graduate Students

This award is open to Canadian or foreign students. The award is to be given on the basis of need, as documented in information provided by the student.

4. Aboriginal Students

This award is open to Canadian aboriginal students (status, non-status, Metis as defined by the Federal Government) entering or attending an undergraduate, graduate or postgraduate program in the Faculty of Dentistry, and is to assist with the costs incurred in dental education not covered by federal grants to aboriginal students. Renewal of the award for the duration of the program is dependent on maintenance of satisfactory standing. Up to four awards will be made each year.

Dr. Barry Korzen Scholarship at the University of Toronto

The award was established by Dr. and Mrs. Nusbaum and family to honour Dr. Korzen for his outstanding contributions and leadership at Head of Endodontics and Assistant Dean of the Faculty. The award will financially support Ph.D. students with preference given to students in Endodontics.

Dr. Norman Levine Bursary in Graduate Pediatric Dentistry

This award was established in 1997 by Dr. and Mrs. Norman Levine and family. Dr. Levine, Class of 1960, was a member of the Faculty for many years and was head of Pediatric Dentistry from 1978 to 1993.

This award is to be given to a student currently in the graduate program in Pediatric Dentistry who demonstrates financial need and has satisfactory academic standing.

Donald Lewis Dental Public Health Student Award

This award was established by his friends and colleagues to honour the retirement of Dr. Donald Lewis from the Faculty of Dentistry in 1997. The award is to be given to a student in the graduate program in Dental Public Health student based on academic achievement and financial need. First awarded in 1998.

PPEF – David Locker Doctoral Scholarship in Dental Public Health

This award was established by the Estate of Dr. David Locker, who was a long time faculty member at the Faculty of Dentistry. An internationally renowned researcher, Professor Locker was recognized for revolutionizing the quantification of oral health and disease through his work on patient-based measures of oral health related quality of life. It is to be awarded to Ph.D. student(s) with preference given to students in Dental Public Health. Should there be no qualifying student(s) preference will be given to other clinical specialties. The award will become part of the guaranteed funding package. First awarded in 2017.

David Locker Graduate Scholarship in Dental Public Health

This award was established by the Estate of Dr. David Locker, who was a long time faculty member at the Faculty of Dentistry. An internationally renowned researcher, Professor Locker was recognized for revolutionizing the quantification of oral health and disease through his work on patient-based measures of oral health related quality of life. It is to be awarded to graduate student(s) with preference given to students in Dental Public Health based on academic merit. First awarded in 2017.

David Locker Graduate Travel Award in Dental Public Health

This award was established by the Estate of Dr. David Locker, who was a long time faculty member at the Faculty of Dentistry. An internationally renowned researcher, Professor Locker was recognized for revolutionizing the quantification of oral health and disease through his work on patient-based measures of oral health related quality of life. It is to be awarded to graduate student(s) with preference given to students in Dental Public Health for travel to conferences where the recipient is presenting a poster or paper. First awarded in 2017.

Dr. David Mock Scholarship at the University of Toronto

The award was established by Dr. and Mrs. Nusbaum and family to honour Dr. Mock for his outstanding contributions and leadership during his tenure as Dean of the Faculty of Dentistry from 2001-2012. The award will financially support Ph.D. students with preference given to students in Oral Pathology and Oral Medicine.

Howard James MacLaurin Scholarship

Through a bequest from the late Howard James MacLaurin, D.D.S., the annual income from an endowment fund provides a monetary award to the most outstanding student in the graduate program in Oral and Maxillofacial Surgery in the year preceding the final year of the program. The award is to be used to attend a professional or scientific meeting in the field of Oral and Maxillofacial Surgery.

Dr. W. Bruce and Susan Malloch Fellowships

To be awarded to graduate students on the basis of financial need. One award is designated specifically for a Graduate Orthodontic student, and the second award is available to another graduate student enrolled in any other Dentistry graduate program including Orthodontics. First awarded in 2006.

Constantine Maniatopoulos Graduate Scholarship

This scholarship was established to honour the memory of Dr. Constantine Maniatopoulos who graduated from the Faculty with a Ph.D. in Biomaterials in 1988, and died suddenly in March 1989. The annual income from the endowment will be given to the graduate student(s) presenting the best poster(s) at the Faculty of Dentistry's annual Research Day. First award given in 1990.

Glenn T. Mitton Medal

Presented by the Ontario Association of Public Health Dentists, this medal is awarded annually to the student standing highest in general proficiency in the graduate program in Dental Public Health. The award was established and first presented in the University in session 1966-67, although the Association had privately given a Mitton medal in 1965-66.

Nobel Biocare Research Fellowship in Prosthodontics

Created by Nobel Biocare to be awarded to one or more graduate students in the Faculty of Dentistry, Discipline of Prosthodontics based on academic merit to support Prosthodontic research. First awarded in 2008.

The Government of Ontario/Dentistry Scholarship in Science and Technology – OGSST

Two awards are currently held by the Graduate Department of Dentistry. Each award is currently valued at \$15,000 per annum. Awards to be allocated on the basis of excellence in academic and research activities.

Dr. Michael Pharoah Graduate Scholarship in Oral and Maxillofacial Radiology

This award was established in honour of Professor Michael John Pharoah, BSc 7T1, DDS 7T5, MSc 8T4, Diploma in Oral Radiology 8T5, in recognition of his outstanding contribution to Oral and Maxillofacial Radiology on the occasion of his retirement from the University of Toronto, Faculty of Dentistry in 2015. Professor Pharoah advanced the art and science of oral and maxillofacial radiology at the University of Toronto, nationally and internationally by focusing and describing radiology characteristics based on disease mechanisms of abnormalities of the maxillofacial bones. It is to be awarded to graduate student(s) in Oral and Maxillofacial Radiology for academic excellence. First awarded in 2017.

Ontario Society for Preventive Dentistry – Public Health Research Fellowship

This award was established by the Ontario Society for Preventive Dentistry to support research by graduate students in Dental Public Health. First awarded in May 2008.

Aaron L. Posen Award

Donated by Dr. A. L. Posen's friends in recognition of his service to the Faculty and his contribution to Orthodontics, particularly through research, this award is given each year for creativity and excellence to the most deserving of the students in the graduating class of Orthodontics.

Poyton Graduate Award for Research in Oral Radiology

This award was made possible by a generous donation from Dr. H.G. and Mrs. E.M. Poyton. The award is given to graduate students in the M.Sc. (Oral Radiology) degree program based on academic achievement and financial need. First awarded in 2005.

Poyton Graduate Student Bursary in Oral Radiology

This bursary was established through a generous donation from Dr. H.G. and Mrs. E.M. Poyton. The bursary will be awarded to students in M.Sc., (Oral Radiology) degree program who are Canadian citizens and permanent residents of Ontario on the basis of academic achievement and financial need. First awarded in 2005.

Dr. Jaroslav Sodek Memorial Award

This award was established by the University of Toronto in memory of Dr. Jaroslav Sodek who impacted people and institutes around the world through his depth of understanding of biology, his rigorous devotion to science, and his appreciation of the human element of the research enterprise. Dr. Sodek was a founding member of the MRC Group in Periodontal Physiology and was an active staff member in the Faculty of Dentistry from 1973 to his untimely death in 2007. This award is to be given to graduate student(s) showing the most promise in biochemical sciences related to matrix biology.

The Southern Ontario Surgical Orthodontic Study Club Award

Award made possible by a donation from the Southern Ontario Surgical Orthodontic Study Club. Awarded to the Second Year student in the graduate program in Orthodontics who gives the best Craniofacial Morphology and Development presentation and literature review for that year.

The Javenthly Soobiah in Memory of Mr. and Mrs. Joe Soobiah/Ontario Graduate Scholarships in Dentistry

Ms. Javenthly Soobiah made these scholarships possible by the generous donation of her home to the Faculty of Dentistry. Three scholarships are given annually to three graduate students enrolled in full-time graduate programs in the Faculty of Dentistry. The funding for these scholarships is shared between the University of Toronto and the Provincial Government under the revised terms for Ontario Graduate Scholarships effective 2001/2002.

Dr. George Vasiga Scholarship

This annual award was established in 2011 by Dr. George Vasiga, an alumnus of the Faculty of Dentistry (DDS and Orthodontics). The award is to be given to a graduate student in Dental Public Health on the basis of academic achievement and financial need. The recipient must meet OSST conditions.

Dentistry Graduate Student Bursary Fund

Through the generous donations of various faculty members and others, an endowment fund has been established to provide bursaries, of varying amounts, for Graduate Students in any of the Faculty of Dentistry's graduate programs on the basis of financial need.

Bursaries – All Degree Programs

Some of these bursaries are awarded to students as part of a **U.T.A.P.S. grant** (see section for details). Others are awarded through the Faculty of Dentistry and require a bursary application to be submitted to the Student Services Office.

Deadlines for these bursaries will be provided to the students each year. Please note that students must be in good academic standing to apply for bursary assistance.

The Dr. W. B. & Edna May Amy Bursary Fund

Through a generous bequest of the late Edna May Amy, degree students registered in the Faculty of Dentistry who are in financial need may apply for bursary assistance from this fund.

BPP – Dr. Greg S. Anderson Dentistry Award

An endowment was established by a generous donation from Dr. G.S. Anderson who wanted to give back to the Faculty of Dentistry. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Dr. Aldo and Peggy Boccia Scholarship

(Any D.D.S. Year). This endowment was established by Dr. Aldo and Peggy Boccia and matched by the Ontario Trust for Student Support (OTSS), D.D.S. students who are in financial need may apply for bursary assistance from this fund.

Charles Hunt Scholarship

This endowment was established by Dave Hunt and matched by the Ontario Trust for Student Support (OTSS). It is to be awarded to D.D.S. student(s) in first or second year of the program on the basis of financial need.

BPP - Class of 6T3 Dentistry Award

This endowment was established by the Class of 1963 on the occasion of the 50th anniversary of their graduation from the Faculty of Dentistry. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Class of 7T3 Dentistry Award at the University of Toronto

This endowment was established by the Class of 1973 and matched by the Boundless Promise Program (BPP), on the occasions of their 35th and 40th class reunions. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

BPP - Class of 7T9 Dentistry Student Assistance Award

This endowment was established by the Class of 1979 on the occasion of the 35th anniversary of their graduation from the Faculty of Dentistry. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Dr. H. Keith Davey 2T4 Award

This endowment was established by Dr. K.W. Davey (5T3) and matched by the Boundless Promise Program (BPP), in memory of his father, Dr. Harold Keith Davey (DDS 2T4). It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Dr. Keith W. Davey 5T3 Award

This endowment was established by Dr. K.W. Davey (5T3) and matched by the Boundless Promise Program (BPP). It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Dentistry Annual Fund Bursary Fund

Through the generous donations of alumni, which were then matched by the University of Toronto and the Government of Ontario, an endowment fund has been established to provide bursaries for needy students in the Faculty of Dentistry. First awarded in 1998.

The Robert B. Dunlop Award

This endowment was established from the estate of Robert B. Dunlop to establish bursaries in honour of Dr. Dunlop. Dr. Dunlop taught for many years at the Faculty of Dentistry, along with 40 years in private practice. To be awarded to D.D.S. students on the basis of financial need.

BPP – Professor Forst Fuller Scholarship

An endowment was established by a generous donation from Dr. J.T. and Mrs. M. Mayhall in memory of Mrs. Mayhall's father. It is to be awarded to (a) full-time, undergraduate student(s) at the University of Toronto, Faculty of Dentistry on the basis of financial need and academic merit with a preference for a student in second year.

BPP-Valerie Stavro Student Bursary

The bursary was established by Dr. Valerie Stavro (D.D.S. 8T4), past UofT Dentistry Alumni Board President and long-time instructor in dentistry in memory of her late father, Chris Stavro. It is to be awarded to a full-time, undergraduate student in the Faculty of Dentistry on the basis of financial need.

BPP-Zettle Family Boundless Award in Dentistry

This endowed award was established by Dr. Katherine Zettle, a graduate of the University of Toronto's D.D.S. program ('87) and the M.Sc. in Pediatric Dentistry program ('95). To be awarded to (a) full-time, undergraduate student(s) at the University of Toronto, Faculty of Dentistry on the basis of financial need and academic merit.

Gina Furtado Memorial Bursary

This award was established by Alda Furtado in loving memory of her daughter Dr. Gina Furtado who tragically passed away in 2006. Dr. Furtado graduated from U of T with a B.Sc. degree in 1991 and received her DDS from New York University in 1995. Dr. Furtado believed in giving back to her community and her family and her mother are continuing this tradition. To be awarded to one or more students in any year of study on the basis of financial need.

Dr. Thomas Howard Graham Bursaries

The estate of Ms. Audrey Graham, who passed away in 2003, donated an endowment to establish bursaries in honour of her father, Dr. Thomas Howard Graham, a 1909 D.D.S. graduate. To be awarded

to D.D.S. students on the basis of financial need. First awarded in 2008.

The Dr. Harry Jolley Bursary

The Dental Service Associates Volunteers of Mount Sinai Hospital have established this bursary in honour of Dr. Harry Jolley. It is awarded to a student with demonstrated financial need who has performed satisfactorily in the D.D.S. program to date. Preference will be given to a student who has shown a special interest in community service. First awarded in 1988.

Dr. James Kerr/Oral Health Award

This endowment was established by Oral Health Magazine in honour of Dr. James Kerr (D.D.S. 6T6). It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Dr. L.W. Leake Bursary

This award was established by Dr. J. Leake, family and friends to honour the memory of Dr. Lawson Leake, who graduated from the University of Toronto in 1934. To be awarded to a student in any year of the D.D.S. program on the basis of financial need. First awarded in 2005.

Hugh MacKay – Dental Emergency Bursary

This endowment was established by the Dental Emergency Service and matched by the Boundless Promise Program (BPP). It is to be awarded to full-time D.D.S. students in any year on the basis of financial need.

Dr. Nicholas A. Mancini Bursary

This endowment was established by Dr. Nicholas A. Mancini and matched by the Ontario Trust for Student Support (OTSS). Dr. Mancini graduated from U of T in 1945 with a B.A. He also served as Chairman of the board of the ODA from 1969-96 and was appointed Chair Emeritus for life in recognition for his contributions.

The CDA recognized his years of service with Honorary Membership. The annual income of the endowment is to be awarded to D.D.S. students on the basis of financial need.

Lisa Montanera Bursary at the University of Toronto

This endowment was established by Dr. and Mrs. Montanera, family and friends and matched by the Boundless Promise Program (BPP), in memory of Lisa, a warmhearted and caring D.D.S. student who passed away unexpectedly during her second year. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

BPP - ODA Boundless Promise Dentistry Award

An endowment was established by a generous donation by the Dentistry Canada Fund on the recommendation of the Ontario Dental Association. It is to be awarded to D.D.S. students in second, third or fourth year of the program on the basis of financial need.

ODA Student Bursary

This endowment was established by the Ontario Dental Association (ODA) and matched by the Ontario Trust for Student Support (OTSS). Bursaries are to be given to D.D.S. students on the basis of financial need.

Poyton Graduate Student Bursary in Oral Radiology

This bursary was established through a generous donation from Dr. H.G. and Mrs. E.M. Poyton. The bursary will be awarded to students in M.Sc., (Oral Radiology) degree program who are Canadian citizens or permanent residents of Ontario on the basis of academic achievement and financial need. First awarded in 2005.

The Ontario Dental Association Bursaries

The Ontario Dental Association each year provides \$1000 for bursaries, which are, awarded to students in any year of the course whose academic standing, is satisfactory and who have demonstrated financial need.

Dr. Victor C. Stanziani Dentistry Award

This endowment was established by Mr. J. Stanziani and family and matched by the Boundless Promise Program (BPP), in loving memory of Dr. V.C. Stanziani (D.D.S. 5T8). It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

Tomkins Family Award in Dentistry

This endowment was established by Mr. and Mrs. Tomkins and matched by the Boundless Promise Program (BPP), in honour of their daughter, Dr. J.L. Tompkins (DDS 8T1) association with the Faculty of Dentistry. It is to be awarded to D.D.S. students in any year of the program on the basis of financial need.

John Flewelling West Bursary

This gift from the estate of the late John Flewelling West, is awarded annually to the student or students in any year of the Faculty of Dentistry who demonstrate serious financial need and who are deserving of assistance. The bursary is the annual. First awarded 1977/78.

University of Toronto Bursaries

Bursary assistance is available from a general University fund. The Faculty application form is used for assessment purposes.

Bursary for Aboriginal Students in the D.D.S. or Graduate Programs

Gladys Watson Education Fund

To be awarded to Aboriginal students, including Status, Non-Status, Métis and Inuit students, enrolled in graduate programs at the master's or doctoral level, and second-entry programs. All Aboriginal students in these programs are eligible to apply, full-time and part-time, with preference given to those students who demonstrate financial need. Eligible students should submit a letter of application listing their estimated costs and sources of funding to First Nations House, Office of Aboriginal Student Services and Programs, 563 Spadina Avenue, Toronto, Ontario, M5S 1A1 by April 30th. Enquiries: please call (416)

978-8227 or (416) 978-7960.

Loan Funds

The University of Toronto Alumni Association Loan Fund

This fund comes from subscriptions received originally from graduates of the University and is administered by the University of Toronto Alumni Association. Loans are available to undergraduate and graduate students enrolled in a full-time course at the University, in second and subsequent years. Funds are available for emergency purposes only. Particulars may be obtained from the Secretary of the Loan Committee, Alumni House, 47 Willcocks Street, Toronto, Ontario M5S 1A1 (Telephone 978-2366).

Ontario Student Assistance Program (O.S.A.P.)

Full-time Students

The Ontario Student Assistance Program (O.S.A.P.) is available to Ontario residents who are Canadian citizens or permanent residents to assist with educational and living expenses. *Please note that students in self-funded programs such as the International Dentist Advanced Placement Program are not eligible for O.S.A.P.* O.S.A.P. loans are interest-free and non-repayable while the student remains enrolled in full-time studies. The Loan Forgiveness Program provides partial forgiveness of loans at graduation for students who have incurred large debt loads.

Information concerning the eligibility and assessment criteria may be obtained from Enrolment Services, Financial Aid, 172 St. George Street, University of Toronto (416) 978-2190. Application forms are available from the Faculty and Enrollment Services. It is recommended that returning students apply for O.S.A.P. assistance by May 31 and that new students apply by June 30.

Students from other Canadian provinces should apply through their provincial financial aid authority. Admissions and Awards can provide addresses, and in many cases, application forms.

Ontario Work-Study Plan

This program is funded by the University and the Ministry of Education and Training, and provides on-campus, part-time employment to students with financial need in second year or higher. Eligibility information and applications are available from Enrolment Services.

Ontario Bursary for Students with Disabilities

Non-repayable assistance of up to \$2000 is available for full-time and part-time O.S.A.P. recipients who have special educational expenses as a result of a disability. Information and applications are available from Admissions and Awards.

Ontario Child Care Bursary

This O.S.A.P. bursary assists married and sole-support parents with the costs of unsubsidized child care. Applicants must have qualified for O.S.A.P. and can be enrolled in either full-time or part-time studies.

Information and applications are available from Admissions and Awards.

Professional Line of Credit

Most lending institutions offer a professional line of credit. You may go to any lending institution offering professional lines of credit to secure your funding. Scotiabank is the preferred provider for the University of Toronto, specifically the branch at Queen and McCaul, 222 Queen Street West, Toronto. However, we encourage you to shop around and find the best deal for you. Contact the Student Services Office for further information about these loans.

Annual Fees 2019-20

The fees quoted below are for guidance. Fees Invoices for the session are available from the School of Graduate Studies (for graduate programs) and from the Fees Department of the University for all other programs. Fees must be paid at chartered banks. For further details check the Fees website at www.fees.utoronto.ca.

Doctor of Dental Surgery

First Year

Academic fee	37,080.00
Non-academic incidental fees	1,449.86
Dental Instruments*	10,006.00
Total fee payable	48,535.86

Second Year

Academic fee	37,080.00
Non-academic incidental fees	1,449.86
Dental Instruments*	8,701.00
Total fee payable	47,230.86

Third Year

Academic fee	37,080.00
Non-academic incidental fees	1,449.86
Dental Instruments*	4,526.00
Total fee payable	43,055.86

Fourth Year

Academic fee	37,080.00
Non-academic incidental fees	1,449.86
Dental Instruments*	2,791.00
Total fee payable	41,320.86

* A portion of the instrument fees consists of optional charges for phantom heads, models and laundry service. See the Fees Guide for exact amounts

The academic fees listed above are for domestic students only. International students are occasionally accepted to the DDS program and the academic fee differs by year:

DDS I	\$93,700.00
DDS II	\$91,100.00
DDS III	\$88,570.00
DDS IV	\$86,110.00

A fee of \$1,394.78 is charged for non-academic incidental fees along with the corresponding fee for Dental Instruments. The University Health Insurance premium of \$636.00 is also charged to international students.

International Dentist Advanced Placement Program in Dentistry (2019)

Academic fee	50,824.00
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Non-academic incidental fees*	689.48
Dental instruments**	10,895.00
Total fee payable	\$62, 408.48

* estimated for 2019 based on 2018 fees.

** A portion of the instrument fees consists of optional charges for phantom heads, models and laundry service. See the Fees Guide for exact amounts.

Graduate Students

For information on fees for all M.Sc./Ph.D. graduate programs in Dentistry see the University of Toronto Student Accounts Website: <http://www.fees.utoronto.ca/>

Postgraduate Students

Residencies in General Dentistry – Registration fee is \$700.00

Special students - The fees are based on academic activity—the registration fee is \$700.00 plus dental instrument fees where applicable.

Notes:

1. The University reserves the right to alter the fees and other charges described in this calendar.
2. (a) The Academic Fee includes tuition, and library and laboratory supply and service.

(b) The Incidental Fee includes the following charges: Students' Administrative Council or Graduate Students' Union; Athletics; Health Services; Dental Students' Society or Graduate and Postgraduate Students' Society; Hart House.

(c) The Instrument Fee includes the following charges as appropriate: purchase and rental of instruments, equipment and materials; clinic wear, masks and gloves; required course manuals; laundry service.
3. Students are required to pay either the Total Fee for the session, or at least the First Installment, on or before the day of registration.
4. Tuition fees for all sessions must be paid at the bank. The Fees Department will not accept payments in person or by mail.

5. For further information concerning payment by OSAP, University awards, outside awards, etc. see the University's Schedule of Fees.
6. Service Charges. All outstanding fees, regardless of the source of payment, are subject to a service charge of 1.5% per month compounded (19.56% per annum) calculated from the 15th of each month. Please refer to: <http://www.fees.utoronto.ca/contact.htm> for relevant information.
7. A student who has not paid his/her total fee at the opening of the session is required to pay the second installment on or before the opening day of the second term. After the 15th of the month in which the second term starts, a penalty will be imposed.
8. Tuition Fee Certificates (T2202A) may be downloaded by students via ROSI but will include only payments made in the previous calendar year.
9. The University of Toronto no longer mails paper invoices throughout the session. Students are expected to monitor their account on the Student Web Service at www.rosi.utoronto.ca.
10. Supplemental Examination fee is \$70 for each paper. Supplemental preclinical evaluation fee is \$70 per subject. Each student requiring a supplemental examination or evaluation must pay the appropriate fee.
11. UHIP A University Health Insurance premium (U.H.I.P.) is charged to international students. This fee also applies to international students exempt from the international student academic fee.

Academic Rules and Regulations

GENERAL REGULATIONS

Dress and Decorum

Professionalism is the standard of attitude, behavior, dress and decorum befitting the members of a professional and distinguished group, which has been given by society the responsibility of regulating itself. In subscribing to these standards, the Faculty has established dress and decorum codes to help students mature as professionals. Clean lab coats are to be worn in laboratories while performing laboratory procedures. For simulated clinical procedures on phantom heads in the lab, the same dress code as for clinics applies. This consists of a clean, full scrub suit with long sleeves and a white t-shirt underneath. Scrub suits are not to be worn outside of the Faculty. Appropriate footwear is required and does not include sandals, open-toed shoes or running shoes. Jogging shoes with stripes or logos on them are not permitted. Shoes may have a cushioned sole but must be solid white. Polished leather shoes are also suitable. Any hairstyle is permitted provided it is neat and clean, and not in a style that may hinder a student's performance, cause the patient discomfort or impair proper infection control. Long hair should be tied back in clinical and laboratory areas. Beards are permitted; however, if a full beard is not worn, then the student must be clean-shaven except for a moustache or goatee. Nametags are to be worn in all labs and clinics. No gum chewing is allowed. Further details are listed in the clinic manual that is given to each student.

Health Protection Requirements

Prior to their first Registration in the Faculty, all accepted applicants will be required to provide documentary proof of a current Tuberculin Test and/or negative chest x-ray, as well as current immunization against Rubella, Tetanus, Polio and Hepatitis B. As a condition of enrolment in the program students are expected to comply with these requirements as detailed in the instructions included in the offer of admission.

As well, each year all returning students must submit a current Tuberculin Test Report prior to registration.

Under certain circumstances, the Faculty may have a duty to report disease, and in the case of a communicable disease, a Medical Officer of Health may be empowered to make an order requiring a student to isolate him/herself in such a manner as not to expose another person to infection. An order of this kind would seriously disrupt the student's program of study.

Participation in Laboratory Testing

At various stages of the teaching programs there are occasions when biochemical, physiological or pharmacological observations are made by students on themselves or on fellow-students. These

exercises include some diagnostic or immunization procedures in common use. Unless some valid reason exists, students are expected to participate in such exercises.

If any investigative work involving student participation does not form part of the teaching programs, participation is entirely voluntary.

Personal Property

Students are required to report promptly at the Student Services Office, the loss or discovery of any articles in or about the Faculty buildings. Students should take advantage of locker facilities available. However, the Faculty will not accept any responsibility whatever for books, instruments, clothing, equipment or personal belongings lost on or removed from the Faculty.

STUDENT RECORDS

Personal information

Personal information provided at the time of admission is verified and brought up to date at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments, this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to the Faculty Registrar or the Associate Dean, Graduate Education, as appropriate:

1. Legal name change with supporting documents
2. Permanent or home address and telephone number
3. Sessional address and telephone number
4. Social Insurance Number
5. Citizenship status in Canada
6. Marital status

Transcripts

For information on how to order a transcript please visit the Transcript Centre's website:
<http://www.transcripts.utoronto.ca/>.

Transfers and Withdrawals

A student who wishes to withdraw from the Faculty or to change his/her course or Division in the University should consult the Faculty Registrar or the Associate Dean, Graduate Education.

Student Indebtedness

The University's Policy on Academic Sanctions for Students who have Outstanding University Obligations supports the principle that academic sanctions should be applied by divisions of the University to students who are in debt to the University. The following is a list of recognized University obligations for students of the Faculty of Dentistry:

- tuition fees
- academic and other incidental fees
- residence fees and other residence charges
- library fines
- Bookstore accounts
- loans made by colleges, faculties or the University
- Health Service accounts
- unreturned or damaged instruments, materials and equipment
- orders for the restitution, rectification or the payment of damages, fines, bonds for good behavior, and requirement of public service work imposed under the authority of the *Code of Student Conduct*.

The following academic sanctions will be imposed on students who have outstanding recognized University obligations:

1. Official transcripts of record will not be issued.
2. Registration will be refused to a continuing or returning student.

Please note that payments made by continuing or returning students shall be applied, firstly to outstanding University debts and secondly, to current fees.

Petitions

A student has the right to petition on any matter affecting his/her academic standing;

he/she should consult the Faculty Registrar about the preparation and submission of his/her petition. Petitions for consideration with regard to final or supplemental examinations on account of illness, or other causes beyond the student's control must be filed with the Faculty Registrar on or before the last day of the appropriate examination period. In the case of illness, a University of Toronto Medical Certificate should be filed with the petition. In the case of other causes, any relevant documentary evidence should be filed.

Undergraduate Course and Program Appeals

1. Students may appeal to the Undergraduate Appeals Committee such decisions as have been made by a Standing Committee of Faculty Council or other academic entity of the Faculty.

2. Structure:

(a) The Undergraduate Appeals Committee has been established as the formal structure within the Faculty for the hearing of appeals. Within the Faculty, the final decision on an appeal rests with this Committee which reports to Faculty Council for information.

(b) A subsequent right of appeal is to the Academic Appeals Committee of the Governing Council. Such appeals must be filed within ninety days of the communication in writing of the decision of the Faculty appeal.

(c) The Committee is composed of 5 members; 4 faculty members and one student who is not in the same class. The Faculty Secretary is a non-voting ex-officio member. Its membership may be different for each appeal.

(d) For an appeal to be successful it must receive at least a majority of the votes of the voting Committee members. (Tie votes indicate the failure of the appeal.)

3. Procedures:

(a) If an appeal is contemplated, the student should consult the Faculty Registrar about the preparation and submission of the appeal.

(b) An appeal to the Undergraduate Appeals Committee must be filed with the secretary of the Committee (secretary to the Dean) within 14 days of the communication of the decision that is being appealed. The appeal shall: i) be in writing; ii) state the nature and grounds for the appeal, iii) be accompanied by any documents that will be used in support of the appeal and iv) indicate if the Appellant will be represented by counsel. Any further documents to be filed at the hearing must, at the latest, be furnished to the Committee two weeks before the hearing.

(c) Except in unusual circumstances, the appeal must be preceded by a submission of a petition to the appropriate Standing Committee of the Faculty (see 1 above). In the absence of a petition, permission to submit an appeal may be granted nonetheless by the Appeals Committee at the hearing of the appeal.

In such a case, the reason(s) for the failure to submit a petition must be stated in the appeal and must be considered justified by the Committee in order for the appeal to proceed.

(d) A date, time and place will be set for the appeal to be heard and the Appellant will be notified as well as provided with any available information about the general format and procedures of the Committee.

(e) Students have the right to appear before the Undergraduate Appeals Committee, with or without legal counsel. If students intend to be accompanied by counsel this must be communicated at the time of submission of the appeal. If the Appellant, legal counsel or representatives of the Faculty do not attend the meeting, the Committee may proceed in their absence.

(f) Student have the right to call evidence and present arguments in person and/or through legal counsel.

(g) The Undergraduate Appeals Committee's written decision, together with a concise but complete statement of the reasons for the decision, will be sent to the appellant.

Appeals regarding School of Graduate Studies Courses and Programs

Graduate students may dispute substantive or procedural academic matters, including grades, evaluation of comprehensive examinations and other program requirements; decisions about the student's continuation in any program or concerning any other decision with respect to the application of academic regulations and requirements to a student.

In the case of dispute, students must first attempt to resolve the matter with the Instructor or other person whose ruling is in question. Should the matter not be resolved with the Instructor, and should the student wish to pursue the matter, the student must discuss the matter with the Graduate Coordinator or Associate Dean of Graduate Education.

Should such discussions fail to resolve the matter, the student may make a formal appeal in writing to the Graduate Department Academic Appeals Committee (GDAAC). The student must complete a Notice of Appeal to the GDAAC; a copy of this Notice is available from the Graduate Coordinator or Associate Dean, Graduate Education. This form must be completed and delivered to the Associate Dean of Graduate Education or the Chair of GDAAC within the specified timeline of 8 weeks from the date of the decision under appeal. The Chair of the Committee will determine, at his or her sole discretion, whether the appeal will proceed by way of an oral hearing and/or written submissions. In either case, the conclusion of the hearing and/or review of the written submissions, the GDAAC will make a recommendation to the Associate Dean of Graduate Education regarding the merits of the appeal. The Associate Dean of Graduate Education will then render the Department-level appeal decision.

The student may appeal the decision of the Associate Dean, Graduate Education by filing a Notice of Appeal to the SGS Graduate Academic Appeals Board (GAAB) within 8 weeks of the decision of the Associate Dean of Graduate Education.

This policy appears in the SGS General Regulations section of the 2019-20 edition of the SGS Calendar.

REGULATIONS AND POLICIES

As members of the University of Toronto community, students assume certain responsibilities and are guaranteed certain rights and freedoms.

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the Faculty are listed in this calendar. In applying to the Faculty, the student assumes certain responsibilities to the University and the Faculty and, if admitted and registered, shall be subject to all rules, regulations and policies cited in the calendar, as amended from time to time.

All University policies can be found at: <http://www.governingcouncil.utoronto.ca/policies>

Those which are of particular importance to students in the Faculty of Dentistry are:

[Policy on Access to Student Academic Records](#)

[Code of Behaviour on Academic Matters](#)

[Code of Student Conduct](#)

[Standards of Professional Practice Behaviour for all Health Professional Students](#)

[Policy on Official Correspondence with Students](#)

[Policy on Academic Sanctions for students who have Outstanding University Obligations](#)

[Provosts Memorandum on Conflict of Interest and Close Personal Relations](#)

More information about students' rights and responsibilities can be found at:

<http://life.utoronto.ca/get-help/rights-responsibilities.htm>

