

# FACULTY OF DENTISTRY

## CALENDAR UNDERGRADUATE AND GRADUATE PROGRAMS

# 2012-2013

VISIT OUR WEBSITE AT:  
[HTTP://WWW.UTORONTO.CA/DENTISTRY](http://www.utoronto.ca/dentistry)

# Academic Calendar 2012-2013

## 2012

June 4	Year 1 M.Sc. Program in Orthodontics begins.
June 15	Classes end for IDAPP.
July 1	Canada Day (University closed).
July 1	Last day for receiving applications for admission to the International Dentist Advanced Placement Program (IDAPP) beginning in March 2012.
July 1	Year 1 M.Sc. Programs in Oral and Maxillofacial Surgery & Anaesthesia and Oral Medicine and Pathology & Oral Medicine begins.
July 1	Year 1 M.Sc. Programs in Paediatric Dentistry begins.
July 2	Canada Day observed (University closed)
July 2	Last day for receiving applications for admission to M.Sc. Programs in Dental Specialties (Endodontics and Periodontology) beginning in 2012.
July 3	Year 1 M.Sc. Program in Periodontology begins.
Jul 21 – Aug 19	Muslim Holy Days – Ramadan.
August 2	Year 1 M.Sc. Program in Endodontics begins.
August 6	Civic Holiday (University closed).
August 6	Year 1 M.Sc. Program in Prosthodontics begins.
August 7	Year 1 M.Sc. Programs in Oral Radiology begins.
August 13	Graduate Student registration begins.
August 19	Muslim Holy Day – Eid-ul-Fitr.
August 27	M.Sc. Program in Dental Public Health begins.
September 1	Last day for receiving applications for admission to M.Sc. Programs in Dental Specialties (Dental Anaesthesia, Dental Public Health, Oral Pathology and Oral Medicine, Oral and Maxillofacial Surgery & Anaesthesia, Oral Radiology, Paediatric Dentistry, Orthodontics and Prosthodontics) and for Research beginning in 2012.
September 1	M.Sc. Program in Dental Anaesthesia begins.
September 3	Labour Day (University closed).
September 4-7	Third and Fourth Year D.D.S. registration and orientation begin.
September 4-7	First Year D.D.S. registration and orientation.
September 10	Second Year D.D.S. registration.
September 10	Classes begin (all years), clinics open.
September 14	Last day to petition for exemptions.
September 14	Graduate Student registration ends.
September 17-18	Jewish Holy Days – Rosh Hashanah.
September 26	Jewish Holy Day – Yom Kippur.
September 30	Last day for receiving applications for admission to dental residencies in Toronto Teaching Hospitals beginning in 2012.
October 1-2	Jewish Holy Days – Sukkot.
October 8	Thanksgiving Day (University closed).
October 26	Muslim Holy Day – Eid-ul-Adha.
November 2	Winter Clinic (Fourth Year D.D.S. classes and clinics cancelled).
December 3	Last day for receipt of applications for admission to the D.D.S. program beginning in September 2013.
December 14	Classes end for First, Second, Third and Fourth Year D.D.S. and clinics close for Third Year D.D.S.
December 18-20	Mid-year Final Examination Period for First, Second and Third Year D.D.S.
December 20	Clinics close for Fourth Year D.D.S.
Dec 24 - Jan 4	University closed.

## 2013

January 7	University reopens.
January 7	Classes begin and clinics open for First, Third and Fourth Year D.D.S.
January 7-8	Registration and Orientation for students entering the International Dentist Advanced Placement Program (IDAPP).
January 8	Classes begin for Second Year D.D.S. and IDAPP, clinics open for Second Year D.D.S.
February 12	Research Day (all afternoon classes and clinics cancelled in all programs starting at 12:00 noon).
February 18	Family Day (University closed).
February 18	Last day to drop courses without academic penalty.
February 19-22	Reading Week (no classes, labs or clinics for First, Second, Third Year D.D.S. and *M.Sc. Programs in Dental Specialties.
March 1	Last day for receiving applications for admission to the M.Sc. Programs in Dental Anaesthesia, Dental Public Health, Oral Pathology & Oral Medicine, Oral Radiology, Paediatric Dentistry and Prosthodontics beginning in 2012 – <i>should a second application deadline be offered.</i>
March 26-27	Jewish Holy Days – First two days of Passover.
March 28	Classes end for Fourth Year D.D.S.
March 29	Good Friday (University closed).
April 1-2	Jewish Holy Days – Last two days of Passover.
April 5	Classes end for Third Year D.D.S..
April 8 – May 3	Study Period/Final Examination Period for Third Year D.D.S.
April 22 – May 3	Oral Examination Period for Fourth Year D.D.S.
April 26	Last day of classes for First Year D.D.S.
April 29 – May 17	Study Period/Final Examination Period for First Year D.D.S.
May 3	Clinics close for Fourth Year D.D.S.
May 6-10	Study Period/Final Examination Period for Fourth Year D.D.S.
May 6 – June 27	Summer Session for Third Year D.D.S.
May 16-17	Jewish Holy Days – Shavuot.
May 20	Victoria Day (University closed).
May 21	Last day of classes for Second Year D.D.S.
May 22 – June 19	Study Period/Final Examination Period for Second Year D.D.S.
June 10-21	Supplemental Evaluations (Preclinical) - First Year D.D.S.
June 21	Classes end and clinics close for IDAPP.
June 27	Clinics close for Third Year D.D.S.
July 1	Canada Day (University closed).
July 2-12	Supplemental Evaluations (Preclinical) - Second Year D.D.S.
July 22 – 26	Supplemental Examinations (Didactic) - First, Second and Third Year D.D.S.
August 5	Civic Holiday (University closed).

\*For Graduate Specialty students it is possible that their specialty discipline may not be able to comply with this period. In that case, the department should ensure that the students get the same amount of time off at other dates.

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## 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. They may not necessarily be available in later years. If the University or the Faculty must change the content of programs of study or withdraw them, all reasonable possible advance notice and alternative instruction will be given. 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 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.htm>

Those which are of particular importance to students are:  
Code of Behaviour on Academic Matters  
Code of Student Conduct  
Grading Practices Policy  
Policy on Official Correspondence with Students

More information about students' rights and

responsibilities can be found at <http://life.utoronto.ca/get-help/rights-responsibilities.htm>

### **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 Policy on Access to 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.

### **Notice of Collection of Personal Information**

The University of Toronto respects your privacy. Personal information that you provide to the University is collected pursuant to section 2(14) of the University of Toronto Act, 1971. It is collected for the purpose of administering admission, registration, academic programs, university-related student activities, activities of student societies, financial assistance and awards, graduation and university advancement, and for the purpose of statistical

reporting to government agencies. At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to [www.utoronto.ca/privacy](http://www.utoronto.ca/privacy) or contact the University Freedom of Information and Protection of Privacy Coordinator at 416 946-7303, McMurrich Building, room 201, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8.

An expanded version of this Notice can be found at

[http://www.e-laws.gov.on.ca/html/statutes/english/elaws\\_statutes\\_90f31.htm](http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_90f31.htm)

# 1 The Faculty of Dentistry

The School of Dentistry (now the Faculty of Dentistry of the University of Toronto) was founded 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 (D.D.S.). 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 of 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 the Ontario Licence 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 95 qualified dentists each year. It also educates specialists in Orthodontics, Paediatric Dentistry, Periodontology, Endodontics, Prosthodontics, Oral and Maxillofacial Surgery & Anaesthesia, Dental Anaesthesia, Oral Pathology and Medicine, Oral Radiology, and Dental Public Health, and provides future teachers of dentistry to universities across Canada through its M.Sc. and Ph.D. 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 transferred to the community colleges. Beginning in 1976/77 the Faculty offered a special degree program, the B.Sc.D. (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. In this connection, it is important to realize that dental research is carried out only in

the Faculties of Dentistry at a few large universities; there is virtually no research by private industry or government bodies. 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. It currently attracts about \$8,000,000 annually in research funds and some of the staff has earned international distinction.

Major research areas in the Faculty include multidisciplinary approaches in the field of biomaterials, dental implantology, facial pain, growth and development, and periodontal physiology. Most, if not all, teachers in the Faculty are also involved in research. Each year, with the support of the Canadian Institutes of Health Research, a limited number of research scholarships are available to enable students to work through the summer months in the research laboratories. Students awarded such scholarships report the results of their work at research seminars.

## Dentistry Library

The Dentistry Library (Room 267) is located on the second floor occupying about 700 square meters. The library has a group study room, a large Reading Room with 95 seats and 12 study carrels provided for the graduate students. It is formally known as The Dentistry 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.

Books from both the University of Toronto and the Harry R. Abbott collections are interfiled on the shelves and listed together in the catalogue. The combined collection contains about 30,000 books and bound journals and DVDs. About fifty percent of the dentistry journals are also available online via the Library's web page. Although it is primarily a dental collection, the library also has books in medicine and the basic sciences. In addition the library offers a wide range of electronic databases such as Ovid Medline, Scopus, Cochrane Library, Proquest Dissertations and Theses, and Web of Science, etc. There is on-site Information Commons consisting of 17-networked PC's and two laser printers, contained in two rooms within the Library. The library has two photocopiers.

University of Toronto students and staff members may borrow from the library. Borrowing privileges are extended under certain conditions to graduates of the Faculty and other extramural readers.

## Degrees and Certificates Offered by the Faculty

The degree offered by the Faculty is:  
Doctor of Dental Surgery – D.D.S.

Graduate degrees offered in collaboration with the School of Graduate Studies are:  
Doctor of Philosophy – PH.D.  
Master of Science – M.Sc.

BOTH THE PH.D. AND M.SC. DEGREE PROGRAMS OFFER:

- 1) Research training – offered to graduates of any discipline relevant to dental research
- 2) Research training combined with advanced 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 disciplines:

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

Detailed information concerning all the specialty programs is to be found in this Calendar in Section 4.

### Continuing Dental Education

A number of short intensive courses of instruction for dental graduates are provided each academic session to update knowledge of particular fields of dentistry, and to acquaint graduates with newer methods and procedures in various clinical areas. For further information, contact the Assistant Dean, Continuing Dental Education and Professional Relations, Faculty of Dentistry, University of Toronto, 124 Edward Street, Toronto, Ontario, Canada, M5G 1G6. Phone – (416) 979-4902.

## Faculty Governance and Administration

Faculty of Dentistry policies are established by Faculty Council after prior consideration by one or more of the appropriate eight standing committees.

Representatives from the undergraduate and graduate students are designated by the students to serve on the Faculty Council, along with academic staff members, representatives of the part-time Associates in Dentistry, representatives of the Royal College of Dental Surgeons, and representatives of the administrative staff.

In addition to Faculty Council, student representatives also serve on seven of the eight standing committees.

The administration of the Faculty is the responsibility of the Dean, assisted by the Associate Dean (Clinical Sciences), the Associate Dean (Biological and Diagnostic Sciences), the Associate Dean (Research), the Associate Dean (Graduate and Postgraduate Studies), the Interim Director of Clinics, the Assistant Dean (Administration), who is also Faculty Secretary and the Faculty Registrar.

## **Officers of the University 2012-2013**

A list of officials of the University of Toronto can be found on the Governing Council website at

<http://www.governingcouncil.utoronto.ca/AssetFactory.aspx?did=3894>

## **Officers of the Faculty of Dentistry 2012-2013**

### **Dean and Arthur Zwingenberger Decanal Chair**

D.A. Haas, D.D.S., PH.D., F.R.C.D.(C)

### **Associate Dean (Biological and Diagnostic Sciences)**

G. Bradley, D.D.S., M.SC., F.R.C.D.(C)

### **Associate Dean (Clinical Sciences)**

TBA

### **Associate Dean (Graduate and Postgraduate Studies)**

M. Manolson, B.SC., M.SC., PH.D.

### **Associate Dean (Research)**

D.G. Cvitkovitch, B.SC., M.SC., PH.D.

### **Assistant Dean (Administration) and Faculty Secretary**

M. Choi, B.COM, M.ED., CA

### **Assistant Dean, Continuing Dental Education and Professional Relations**

R. Carroll, D.D.S.

### **Director of Clinics**

Posluns, J., B.SC., D.D.S., DIP. ORTHO, M.ED.,  
FRCD(C)

### **Faculty Registrar**

M. Edghill

### **Faculty Librarian**

H. He, M.ENG(BEIJING), M.L.I.S.(WESTERN ONT)

### **Director of Advancement**

S.K. Alksnis, B.A.(YALE)



## Officers of the Faculty since its Origin

### Deans

- \*James Branston Willmott, D.D.S., LL.D., 1875-1915
- \*Albert Edward Webster, D.D.S., M.D., LL.D., 1915-1923
- \*Wallace Seccombe, D.D.S., 1923-1936
- \*Arnold Denbow Alfred Mason, D.D.S., LL.D., 1936-1947
- \*Roy Gilmore Ellis, D.D.S., M.SC.D., F.D.S., R.C.S., LL.D., 1947-1969
- Gordon Nikiforuk, D.D.S., M.SC., F.R.C.D.(C), 1970-1977
- \*Arnold Richard Ten Cate, B.SC., PH.D., B.D.S., D.SC. (H.C.), D.SC. (H.C.), D.D.S. (H.C.), 1977-1989
- \*Norman Levine, B.A., D.D.S., DIP.PAEDODONT. M.SC.D., F.R.C.D.(C), ACTING, 1989-1990, 1997-1998
- Barry John Sessle, B.D.S., B.SC., M.D.S., PH.D., D.SC. (H.C.), 1990-1997, 1998-2001
- David Mock, D.D.S., PH.D., F.R.C.D. (C), 2001-2012
- Daniel A. Haas, D.D.S., PH.D., F.R.C.D.(C), 2012 -
- ### Associate Deans
- \*Percy Gordon Anderson, D.D.S., 1968-1970
- \*Arthur Murray Hunt, D.D.S., D.D.P.H., M.SC.D., F.R.C.D.(C), 1968-1974
- \*Herbert Guy Poyton, L.D.S., F.D.S., H.D.D., 1970-1973
- Donald Garth Woodside, B.SC., D.D.S., M.SC.D., F.R.C.D.(C), 1970-1973
- \*Jack Kreutzer, D.D.S., B.SC.D., 1974-1976
- Gordon William Thompson, D.D.S., M.SC.D., PH.D., 1975-1978
- \*Charles Olivieri-Munroe, B.CH., F.D.S., R.C.S., M.D., 1985-1990
- Barry John Sessle, B.D.S., B.SC., M.D.S., PH.D., D.SC. (H.C.), 1985-1990
- \*Norman Levine, B.A., D.D.S., DIP.PAEDODONT. M.SC.D., F.R.C.D.(C), 1990- 1997
- Robert Mathews Pilliar, B.A.SC., PH.D., 1990-1994, (ACTING) 1999-2000
- Johan Heersche, B.SC., M.SC., PH.D., 1994-2003
- David Mock, D.D.S., PH.D., F.R.C.D.(C), 1997-2001
- George Zarb, B.CH.D., D.D.S., M.SC., M.S., F.R.C.D. (C), 1997-2001
- \*Arnold Richard Ten Cate, B.SC., PH.D., B.D.S., D.SC. (H.C.), D.SC. (H.C.), D.D.S. (H.C.) 1997-1998
- Richard P. Ellen, D.D.S., CERT. PERIO. & ORAL F. MEDICINE, CERT. ORAL MICROBIOLOGY, 1998-1999, 2000-2003

- Howard C. Tenenbaum, D.D.S., DIP. PERIODONT., PH.D., F.R.C.D.(C), 2001-2007
- Daniel A. Haas, D.D.S., PH.D., F.R.C.D.(C), 2001 - 2012
- \*David Locker, B.D.S., PH.D., 2003-2010
- J. Paul Santerre, B.SC., M.SC.ENG., PH.D., 2003 -2008
- D.G. Cvitkovitch, B.SC., M.SC., PH.D., 2008 –
- +Manolson, M., B.SC. (MCGILL), M.SC. (FREE UNIVERSITY OF BERLIN), PH.D. (MCGILL), 2010-
- ### Assistant Deans
- \*Thomas Cowling, M.A., D.D.S., B.PAED., 1942-1950
- \*Alvin Bruce Hord, D.D.S., B.SC.D., 1970-1974
- Gordon William Thompson, D.D.S., M.SC.D., PH.D., 1973-1975
- Barry Davison Mitchell, B.A., M.A., PH.D., 1978-1981
- \*Norman Levine, B.A., D.D.S., DIP.PAEDODONT. M.SC.D., F.R.C.D.(C), 1979-1985
- Robert S. Turnbull, D.D.S., M.SC.D., DIP. PERIODONT., 1999-2002
- David W. Matear, B.M.SC., B.D.S., D.D.P.H.R.C.S. (ENG.), M.SC., F.R.S.H., M.I.MGT., M.H.S.M., 2002-2004
- Barry H. Korzen, D.D.S., DIP. ENDO., 2002-2008
- \*Luciano Valenzano, B.SC., D.D.S., 2004-2011
- Robert Carroll, D.D.S., 2008 -
- ### Secretaries
- \*Guy Hume, D.D.S., 1902-1908
- \*Colin Constable Rous, B.A.SC., 1925-1956
- Phillip Watson Millard, C.D., 1956-1961
- \*Alan Gordon Read, 1961-1976
- Barry Davison Mitchell, B.A., M.A., PH.D., 1976-1981
- ### Assistant Deans and Faculty Secretaries
- David Keeling, M.A., 1981-1985
- Katherine Anne Boyd, B.A., M.B.A. (ACTING), 1993-1994
- Donna Crossan, B.A., M.A., M.B.A., 1985-1993, 1994 – 2012
- Mary Choi, B.COM, M.ED., CA, 2012-
- ### Faculty Librarians
- \*Phyllis Margaret Smith, B.A., B.L.S., 1954-1978
- Susan Goddard, B.A., M.L.S., 1978-1997
- Stephanie Walker, B.A., M.A., M.L.S., 1997-2003
- Margaret Fulford, B.A., M.L.S., 2003–2007
- Helen He, M.L.I.S., 2007 –
- ### Faculty Registrars
- Margaret Edghill, 2003 -

\*Deceased

# Teaching Staff 2012-2013

## Decanus Emeritus

G. Nikiforuk, D.D.S., M.SC., F.R.C.D.(C)

## Professors Emeriti

D.L. Anderson, D.D.S., M.SC.D.,  
DIP.PERIODONT., F.R.C.D.(C)  
J.D. Anderson, B.SC., D.D.S., M.SC.D.  
A. Bennick, CAND.ODONT.(COPEN.),  
DIP.PERIODONT., M.SC.D., PH.D.  
R.C. Burgess, B.SC., M.SC., D.D.S.  
K.W. Davey, D.D.S., M.SC.D., F.R.C.D.(C)  
R.P. Ellen, D.D.S.(TEMPLE), CERT. PERIO. AND  
ORAL MED. (HARVARD), CERT. ORAL MICRO.  
(FORSYTH.)  
A.H. Fenton, D.D.S., M.S.(ROCH.),  
DIP.PROSTHODONT. (ROCH.), F.R.C.D.(C)  
R.O. Fisk, D.D.S., M.S.(MICH.), F.R.C.D.(C)  
E. Freeman, D.D.S., M.SC.D., DIP.PERIO.  
J.N.M. Heersche, B.SC.(UTRECHT),  
M.SC.(UTRECHT), PH.D. (LEYDEN)  
J.L. Leake, D.D.S., D.D.P.H., M.SC.,  
F.R.C.D.(C)  
D.W. Lewis, D.D.S., D.D.P.H., M.SC.D.,  
F.R.C.D.(C)  
B. Liebgott, D.D.S., M.SC.D., PH.D.,  
H. Limeback, B.SC., PH.D., D.D.S.  
J.H.P. Main, B.D.S.(EDIN.), PH.D.(EDIN.),  
F.D.S., R.C.S.(EDIN), F.R.C.PATH., F.R.C.D.(C)  
J.T. Mayhall, B.A. (DEPAUW), D.D.S.(IND.),  
A.M.(CHICAGO), PH.D. (CHICAGO), D.ODONT,  
(H.C.) (OULU)  
D. McComb, B.D.S.(EDIN.), M.SC.D.,  
F.R.C.D.(C)  
A.H. Melcher, B.D.S., H.D.D., M.D.S., PH.D.,  
D.SC.  
J.A. Pedler, B.D.S.(LOND.), L.D.S.,  
R.C.S.(ENG.), M.R.C.S.(ENG.),  
L.R.C.P.(LOND.), M.D.S.(LOND.), F.D.S.,  
R.C.S.(ENG.), F.R.C.D.(C)  
+R.M. Pilliar, B.A.SC., PH.D.(LEEDS)  
R.B. Ross, D.D.S., M.SC.D., DIP.ORTHODONT.,  
F.R.C.D.(C)  
H.J. Sandham, D.D.S.(ALTA.), M.SC.(MAN.),  
PH.D.(MAN.)  
D.C. Smith, B.SC., M.SC.(LOND.), D.SC.  
(LONDON), PH.D.(MANCHESTER), F.R.S.C.  
J.E. Speck, D.D.S., DIP.PERIODONT., F.A.C.D.,  
F.R.C.D.(C)  
J.M. Symington, B.D.S.(DUNELM), F.D.S.,  
R.C.S., (ENGLAND), M.S.C. (MANCHESTER),,  
PH.D. (MANCHESTER)  
K. Titley, B.D.S.(LOND.), L.D.S., R.C.S.(ENG.),  
DIP.PAEDO., F.R.C.D.(C), M.SC.D., F.I.C.D.  
C.D. Torneck, D.D.S., M.S. (MICH.), F.R.C.D.(C)  
R.S. Turnbull, D.D.S., M.SC.D., DIP.PERIODONT.  
P.A. Watson, D.D.S., M.SC.D.(IND.)

S. Weinberg, D.D.S., DIP.ORAL SURG., DIP.  
A.B.O.M.S., F.I.C.D., F.R.C.D.(C)  
D.G. Woodside, C.M., B.SC., D.D.S. (DAL.),  
M.SC.D., PH.D. (H.C.) (SWEDEN) F.R.C.D.(C)  
G.A. Zarb, B.CH.D.(MALTA), D.D.S.,  
M.SC.(MICH.), M.S.(OHIO), DR.  
ODONT.(H.C.)(SWEDEN), F.R.C.D.(C)

## Associate Professor Emeritus

G. Altuna, D.D.S. (TURKEY), DIP.  
ORTHODONTICS (GERMANY), M.SC., PH.D.  
(GERMANY)  
C. Kilmartin, B.D.S.(N.U.I.), M.SC.(LONDON),  
D.D.S., F.R.C.D.(C)  
R.J. McComb, B.D.S.(EDIN.), M.SC.(MAN.),  
F.R.C.D.(C), DIP. A.B.O.P.

## Professors

Clokie, C.M.L., D.D.S. (MCGILL), DIP. ORAL  
AND MAXILLOFACIAL SURGERY (MCGILL),  
PH.D. (MCGILL), DIP. A.B.O.M.S.  
+Davies, J.E., B.SC.HONS, (CARDIFF), PH.D.  
(LONDON), B.D.S. (WALES), *Biomaterials,  
Chemical Engineering and Applied Chem-  
istry (Applied Science and Engineering)*  
Deporter, D., D.D.S., DIP.PERIO., PH.D.  
*Periodontics*  
+Dostrovsky, J.O., M.SC.(LONDON), PH.D., *Oral  
Physiology, Department of Physiology,  
(Medicine)*  
El-Mowafy, O., B.D.S.(CAIRO),  
PH.D.(MANCHESTER), F.A.D.M. (USA),  
*Restorative Dentistry, Head of Restorative  
Dentistry*  
Friedman, S., D.M.D. (HEBREW U.)  
+Haas, D.A., D.D.S., PH.D., F.R.C.D.(C), *Dean  
and Arthur Zwingenberger Decanal Chair,  
Head of Dental Anaesthesia, Department  
of Pharmacology (Medicine)*  
\*Jokstad, A., D.D.S.(OSLO), DR.ODONT.(OSLO),  
*Head of Prosthodontics and The George  
Zarb/Nobel Biocare Chair in  
Prosthodontics*  
~Kenny, D.J., B.SC.(WATERLOO), D.D.S.  
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McCulloch, C.A.G., B.SC., D.D.S., PH.D.,  
F.R.C.D.(C), *Periodontics, Director, Canadian  
Institutes of Health Research Group in  
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in Matrix Dynamics*

\*Leave of absence

+Cross appointment

~Status only

\*+Mock, D., D.D.S., PH.D., F.R.C.D.(C), *Oral Medicine and Oral Pathology, Department of Laboratory Medicine and Pathobiology (Medicine)*

Pharoah, M., D.D.S., B.SC., M.SC., F.R.C.D.(C), *Oral Radiology*

+Salter, M.W., M.D. (WESTERN ONT.), PH.D. (MCGILL), *Department of Physiology (Medicine), Director of the Centre for the Study of Pain*

+Santerre, J.P., B.SC. (DALHOUSIE), M.SC.ENG. (UNIVERSITY OF NEW BRUNSWICK), PH.D. (MCMASTER), *Director of Institute of Biomaterials and Biomedical Engineering*

\*Seltzer, Z., B.M.S. (HEBREW U.), D.M.D. (HEBREW U.), *Genetics, Centre for the Study of Pain, Centre for International Health, Toronto Rehabilitation Institute, University Health Network*

+Sessle, B.J., B.D.S.(SYD.), B.SC.(SYD.), M.D.S.(SYD.), PH.D.(N.S.W.), D.SC. (H.C.) (MCGILL), D.SC.(H.C.) (AALBORG), F.R.S.C., F.C.A.H.S., *Head of Oral Physiology, Department of Physiology (Medicine), Canada Research Chair*

+Sherman, P.M., M.D. (CALGARY), FRCPC, *Paediatrics, Microbiology, Hospital for Sick Children*

Sigal, M., D.D.S., M.SC., DIP.PAEDO, F.R.C.D.(C), *Head of Paediatric Dentistry, Dentist-in-Chief, Mount Sinai Hospital*

Tam, L.E., D.D.S., M.SC., *Restorative Dentistry*

+Tenenbaum, H.C., D.D.S., DIP.PERIODONT., PH.D., F.R.C.D.(C), *Periodontics, Department of Laboratory Medicine and Pathobiology (Medicine)*

#### **Associate Professors**

Basrani, B., D.D.S. (U BUENOS AIRES), PH.D. (MIAMONIDES U.) *Endodontics*

Birek, P., D.D.S., M.SC., DIP.PERIODONT., *Periodontics*

+Bradley, G., D.D.S., M.SC., F.R.C.D.(C), *Oral Pathology and Oral Medicine, Department of Otolaryngology (Medicine), Associate Dean (Biological and Diagnostic Sciences), Head of Oral Pathology and Oral Medicine*

~Brown, J.W., D.D.S., *Restorative Dentistry*

~Casas, M.J., D.D.S., DIP.PAEDO, M.SC., *Hospital for Sick Children*

Cvitkovitch, D.G., B.SC. (MANITOBA), M.SC. (MANITOBA), PH.D. (MANITOBA), *Associate Dean (Research), Microbiology*

Dao, T.T.T., D.M.D. (MONTREAL), M.SC. (MONTREAL), DIP.PROSTHO., PH.D. (MONTREAL), F.R.C.D.(C), *Prosthodontics*

Daskalogiannakis, J., D.D.S. (ATHENS), M.SC. (MANITOBA), FRCDC(C), *Orthodontics*

El-Badrawy, W. B.D.S.(CAIRO), M.SC. (MANCHESTER), *Restorative Dentistry*

+Finer, Y., B.MED.SC. (HEBREW U.), M.SC. (HEBREW U.), D.M.D. (HEBREW U.), PH.D., M.SC., F.R.C.D.(C), *Head of Biomaterials*

Ganss, B., B.SC.(U. WURZBURG), M.SC. (REGENSBURG), PH.D.(MAX-PLANCK INST. MARTINSFRIED), *Matrix Dynamics Group*

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+Manolson, M., B.SC. (MCGILL), M.SC. (FREE UNIVERSITY OF BERLIN), PH.D. (MCGILL), *Oral Physiology, Associate Dean (Graduate and Postgraduate Studies), Department of Biochemistry (Medicine)*

Metaxas, A., D.D.S., (GREECE), DIP.ORTHO., M.SC., D.DENT. (ATHENS), F.A.C.D., *Orthodontics*

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F.R.C.D.(C), F.A.D.I., F.P.F.A., *Paediatric  
Dentistry*  
Arat, F.E., D.D.S.(TURKEY), D.D.S., PH.D  
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Avivi-Arber, L., B.SC. (HEBREW U.), B.SC.  
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DIP.PROSTHODONTICS, *Prosthodontics*  
Azarpazhooh, A., D.D.S.(IRAN), M.SC., PH.D.,  
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~Baker, G.I., D.D.S., M.S., F.R.C.D.(C), *Oral  
and Maxillofacial Surgery*  
Barlow, W.R., D.D.S., *Oral Radiology*  
Bhide, V., B.ARTS.SC.HONS (MCMASTER),  
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*Periodontics*  
~Brymer, P.A., D.D.S., *Prosthodontics*  
Burgess, K., D.D.S., DIP. ORAL PATHOLOGY,  
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Chugh, D., B.S. (CANISIUS), D.D.S.(NEW YORK AT  
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~Cooney, P.V., B.D.S., L.D.M., D.D.P.H., M.SC.,  
F.R.C.D.(C), *Dental Public Health*  
Cornell, D.S., B.SC., D.D.S., M.H.A.(UBC),  
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~Cowan, D., D.D.S., F.I.C.D.(C), F.A.D.I.,  
F.A.C.D., F.P.F.A., *Restorative Dentistry*  
~Dagys, A., D.D.S., DIP. ORTHODONT.,  
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De Souza, G., D.D.S. (BRAZIL), PH.D. (BRAZIL),  
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Dempster, L.J., RDH, B.SCD(DH); M.SC.,  
(MCMASTER); PH.D., *Preventive Dentistry,  
Kamienski Professorship in Dental  
Education Research*  
Diwan, R.R., B.D.S. (CAIRO), PH.D.  
(MANCHESTER), *Prosthodontics*  
~Fefergrad, I., C.S., B.A. (MCGILL), B.CL.  
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Ghilzon, R., B.SC.(DETROIT), D.D.S.(DETROIT),  
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Goldberg, M.B., D.D.S., M.SC., DIP. PERIO.,  
*Periodontics*  
Grad, H., B.SC.PHM., M.SC.PHM., *Faculty  
Pharmacist*  
Holmes, H.I., D.D.S. (UWO), DIP. ORAL AND  
MAXILLO. SURGERY (U. ROCHESTER.),  
F.I.C.D., F.A.C.D., *Interim Head, Oral and  
Maxillofacial Surgery*  
~Husain, I.S., B.D.S., M.SC., *Preventive  
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Katsikeris, N., D.D.S.(ATH.), DR.DENT(ATH.),  
DIP.ORAL AND MAXILLOFACIAL SURGERY,  
F.I.C.D., *Oral and Maxillofacial Surgery*  
Lai, J.Y., B.SC., D.M.D. (U. PENN.), M.SC.  
(PERIO.), M.ED., F.R.C.D.(C), *Head of  
Periodontics*  
Lança, J., M.D.(COIMBRA), PH.D.(COIMBRA/  
TORONTO), *Pharmacology*  
Laing, L.P., B.SC., B.ED., M.SC.  
(QUEENS), PH.D. (QUEENS), D.D.S., M.SC.,  
F.R.C.D.(C), *Prosthodontics*  
~LeBlanc, V., B.PS.(MONCTON), PH.D.  
(MCMASTER), WILSON CENTRE FOR  
RESEARCH IN EDUCATION, *Preventive  
Dentistry*  
~Lee, L., D.D.S., M.SC.(IND.), CERT. ORAL PATH.  
(IND), DIP.A.B.O.P., F.R.C.D.(C), *Oral  
Radiology*  
Lee, R., B.MATH.(WATERLOO), D.D.S.  
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F.R.C.D.(C), *Paediatric Dentistry*  
+Leong, I.T., B.SC.HONS (WITWATERSRAND),  
B.D.S. (WITWATERSRAND), DIP. ORAL MED. &  
PATH., M.SC., *Oral Medicine and Oral  
Pathology, Department of Laboratory  
Medicine and Pathobiology (Medicine)*  
Lin, G., M.SC., D.D.S., *Restorative Dentistry*  
Malkhassian, G., D.D.S., M.SC., F.R.C.D.(C),  
*Endodontics*  
~Maxymiw, W.G., D.D.S., *Oral Medicine and  
Chief, Department of Dentistry, Princess  
Margaret Hospital*  
Moriarty, T.J., B.A.(MCGILL), B.SC.,(MCGILL),  
PH.D.(U. CALGARY), *Oral Microbiology,  
Matrix Dynamics Group*  
~Peel, S.A.F., B.SC.HONS (BIRMINGHAM),  
PH.D., *Oral and Maxillofacial Surgery*  
Perschbacher, S., D.D.S. (WESTERN ONT),  
M.SC., DIP ABOMR, FRCD(C), *Oral Radiology*  
Plazas-Garzon, A., D.D.S., SPEC.  
ENDODONTICS (U. JAVERIANA), *Endodontics*  
Prakki, A., D.D.S.(CAMPINAS STATE U.),  
M.SC.(U. SÃO PAULO), PH.D.(U. SÃO PAULO  
AND U. OF NORTH CAROLINA), *Restorative  
Dentistry*

+Quiñonez, C.R., D.M.D.(MANITOBA),  
M.SC.(MANITOBA), PH.D., F.R.C.D.(C).,  
*Dental Public Health, Dalla Lana School of  
Public Health*

Revuelta, R., D.D.S.(MEXICO), M.SC.,  
F.R.C.D.(C), DIP. A.B.P.D., *Paediatrics*

Rukavina, J., B.SC., D.D.S., DIP. PAEDO.,  
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Sectakof, P., D.D.S., DIP.ORTHODONT., M.SC.,  
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Sharma, K., D.D.S.(DETROIT), B.SC., M.SC.  
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+Sone, E.D., B.SC., M.S.(NORTHWESTERN),  
PH.D.(NORTHWESTERN), *Biomaterials,  
Materials Science and Engineering,  
Biomaterials and Biomedical Engineering*

~Sutherland, S.E., D.D.S., M.SC.(MCMASTER),  
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Sciences Centre*

~Voronov, I. B.SC.(MOSCOW), M.A.SC., PH.D.,  
*Oral Physiology*

Wilson, W.L., D.D.S., DIP. ORTHO., FRCD(C),  
F.A.D.I., *Orthodontics*

#### Adjunct Professors

Tenn-Lyn, N., B.SC.HON, M.D.(MCMASTER),  
M.ED., F.R.C.P.(C), D.A.B.E.M., *Dental  
Anaesthesia*

#### Senior Tutors

Hennyey, D., B.A., M.A., RD, *Preventive  
Dentistry*

#### Lecturers

Black, R., D.D.S., M.SC., F.R.C.D.(C), *Oral  
Medicine and Oral Pathology*

Cash, M, B.SC., D.D.S. *Oral Radiology*

Clarke, M. RDH (GEORGE BROWN), B.A.(YORK),  
M.SC., *Preventive Dentistry*

Mendes, V.C., B.D.S.(BRAZIL), M.SC.,(BRAZIL),  
PH.D.(BRAZIL), *Biomaterials*

Paculan, R.H., D.M.D.(CENTRO ESCOLAR),  
CERT. PROSTHO(MICHIGAN), M.S.(MICHIGAN),  
*Prosthodontics*

#### A. Bruce Hord Master Teacher Award

##### 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. A. 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

##### 1997-1999

Not awarded

##### 1999-2000

Dr. D. A. Haas  
Dr. A. Dale

##### 2000-2001

Dr. R. S. Turnbull  
Dr. I. Barzilay

##### 2001-2002

Dr. Ghassan Yared  
Ms. Linda McKay

##### 2002-2003

Dr. D. Locker  
Dr. A. Mazzulli

##### 2003-2004

Dr. M. Pharoah  
Dr. L. Chapnick

##### 2004-2005

Dr. L. Tam  
Dr. T. Dinh

##### 2005-2006

Dr. C. Kilmartin  
Dr. J.L. Tomkins

##### 2006-2007

Dr. K. Titley  
Ms. D. Hennyey

##### 2007-2008

Dr. M. Sigal  
Dr. J. Rukavina

##### 2008-2011

Not awarded

##### 2011-2012

Dr. C. Quiñonez  
Dr. S. Bazos  
Dr. W. Wilson

## Associates in Dentistry 2011-2012

Dr. P. Abbey  
Dr. S. Abitbol  
Dr. J. Adam  
Dr. F. Afonso  
Dr. M. Aharon  
Dr. D. R. Ahmed  
Dr. K. Aiken  
Dr. V. Aldana  
~Dr. M. Al Mardini  
Dr. E. Alders  
Dr. C. Alexander  
Dr. A.N. Ali  
Dr. J. Altman  
Dr. P. Alkumru  
Dr. M. Al Rayes  
Dr. M. Al Sayyab  
Dr. G. Altuna  
Dr. A. Anca  
Dr. S. Andrews  
Dr. J. Anthony  
Dr. D. Apostol  
~Dr. L. Arenson  
Dr. K. Arora  
Dr. K. Ashoo  
Dr. C. Asik  
Dr. M. Baghdady  
Dr. P. Bahrami  
Dr. H. Bajawa  
Dr. L. Bajcer  
Dr. W.A. Baker  
Dr. M. Barashi  
~Dr. E. Barrett  
Dr. G. Barrie  
Dr. P. Barros  
~Dr. I. Barzilay  
Dr. H. Battaglin  
Dr. S. Bazos  
Dr. E. Behrouzian  
Dr. P. Bellingham  
Dr. J. Bender  
Dr. G. Berall  
Dr. D. Bernhard  
Dr. P. Bevilacqua  
Dr. P. Bhatti  
Dr. C. Binert-Miller  
Dr. J. Blackmore  
~Dr. N. Blanas  
Dr. S. Boyakhchyan  
Dr. J. Bozek  
Dr. P. Branco  
Dr. H. Branicky  
Dr. J. Brown  
Dr. V.M.L. Browne  
Dr. G. Bucciarelli

Dr. M. Calansingin  
Dr. K. Calzonetti  
Dr. E. Cardoso  
~Dr. R. Carmichael  
Dr. P. Carnevale  
Dr. A. Carvalho  
~Dr. M. Casas (HSC)  
~ Dr. M-E. Cascone  
Dr. S. Caudry  
Dr. G. Ceci  
Dr. J. Center  
Dr. E. Chan  
~Dr. L. Chan  
Dr. D. Chandra  
Dr. J.W. Chang  
Dr. A.B. Chapnick  
Dr. L. Chapnick  
~Dr. P. Chapnick  
Dr. S. Chemmanam  
~Dr. A. Chen  
Dr. A. Chiang  
Dr. Y-S. Chiu  
Dr. J.S. Cho  
Dr. Y.-S. Choi  
Dr. M.-Y. Chou  
Dr. S. Chow  
~Dr. S. Chung  
Dr. T. Ciocca  
Dr. D. Clark  
Dr. A. Coburn  
Dr. C. Consky  
~Dr. S. Cohen  
~Dr. M. Colaiacovo  
Dr. P.E. Copp  
Dr. S. Corber  
Dr. Y. Cruz  
Dr. J. Cruz-Clow  
Dr. M. Dabuleanu  
Dr. X.F. Dai  
Dr. S. Dalmao  
Dr. S. Daneshdoost  
Dr. I. Daniel  
Dr. K. Dann  
Dr. M. Darvishan  
Dr. L. David  
~Dr. K. Davis  
Dr. M. Deemar  
Dr. A. DeFilippo  
Dr. M. Dekanoidze  
Dr. A.J. Del Core  
Dr. R. Del Zotto  
Dr. H. de Man  
Dr. D. Denis  
Dr. D. Dennis  
Dr. F. Der

Dr. G. Deshpande  
Dr. S. Dhanji  
Dr. L. Diamond  
Dr. G. Dimitrijevic  
Dr. S. Dimitry  
Dr. E. Dimovski  
Dr. F. Diodati  
~Dr. D. Dover  
Dr. R.N. Durkot  
Dr. S. Dwosh  
Dr. W. Dylan  
Dr. A. Ebrahimpour  
Dr. L. Emami  
Dr. A. Encioiu  
Dr. R. Eng  
Dr. J. Farber  
~Dr. D. Farkouh  
Dr. M. Farzaneh  
Dr. J. Fasken  
Dr. R. Fayad  
Dr. B. Feldman  
Dr. A. Fields  
Dr. M. Fitch  
Dr. M. Florence  
Dr. K. Floroff  
Dr. J.W. Foster  
~Dr. R. Fratkin  
~Dr. B. Freeman  
~Dr. M. Freilich  
Dr. J. Friedlich  
Dr. C. Friedman  
Dr. K. Fung  
Dr. C. Galler  
Dr. S. Gangbar  
~Dr. J. Garbedian (HSC)  
Dr. J. Geller  
Dr. A. Ghindea  
~Dr. M. Gilbert  
Dr. J. Gillanders  
Dr. B. Girard  
Dr. B.R. Gitnick  
Dr. G. Glassman  
Dr. R. Goldberg  
Dr. R. Golden  
Dr. I. Golosky  
~Dr. M. Goodman  
Dr. J. Gordon  
~Dr. E. Grodecki  
Dr. A. Grossman  
Dr. H. Grubisa  
Dr. C. Gruson  
~Dr. T. Guitard  
Dr. R. Gutierrez  
Dr. S. Guzman  
~Dr. M. Haas

Dr. D.I. Haas  
~Dr. E. Habsha  
Dr. S. Hacherian  
~Dr. A. Haddad  
Dr. D. Haerke-Schenk  
Dr. J. Halkiotis  
~Dr. E. Haltrecht  
Dr. M. Hameed  
Dr. M. Hausmanis  
Dr. M. Hepworth  
Dr. K. Hershenfield  
Dr. L.A. Hill  
Dr. R.W. Hillis  
Dr. D. Hirsch  
Dr. S.S.N. Ho  
Dr. I. Hollander  
~Dr. P. Hong  
Dr. S. Honnabovi  
Dr. B. Hood  
Dr. B. Hori  
Dr. D. Hui  
Dr. B. Hurd  
Dr. I. Hussey  
Dr. K. Ing  
Dr. P. Ioannidis  
Dr. L. Isaac  
Dr. B. Issaac  
Dr. L. Jacob  
Dr. M. Jacob  
Dr. G. Jacobson  
Dr. F. Jadu  
Dr. F. Jaffer  
Dr. S. Jaffer  
Dr. W.J. Jenkins  
Dr. D. Jeong  
Dr. R.M. Jones  
Dr. M. Joseph  
Dr. S. Joshi  
Dr. D. Justa  
Dr. F.D. Kalamut  
Dr. K. Kaller  
Dr. L. Kamelchuck  
Dr. S.A. Karp  
Dr. S. Kashyap  
Dr. A. Katchky  
Dr. M. Kay  
Dr. S. Kay  
Dr. J. Kellerstein  
~Dr. T. Kertes  
Dr. H. Kestenberg  
Dr. V. Khadivi  
Dr. K. Khaled  
Dr. S. Khan  
Dr. S. Kherani  
Dr. S. Khoshnevis  
Dr. F. Kienle  
Dr. P. Kim  
Dr. P. Kimos  
Dr. E. Kiss  
~Dr. H. Klieb  
Dr. S.P. Klimitz

Dr. M. Klotz  
Dr. J. Knoll  
Dr. T. Kokosis  
Dr. M. Kolivaris  
Dr. R. Komorowski  
Dr. N. Kos  
Dr. O. Kovbel  
Dr. R. Kreher  
Dr. J. Kushner  
Dr. F.S. Lakschevitz  
Dr. K. Lamptey  
Dr. B. Lands  
Dr. M. Landzberg  
Dr. R. Lang  
Dr. B. Laski  
Dr. R. Lawson  
Dr. D. Lebowitz  
Dr. K. Lederman  
Dr. D.S. Lee  
~Dr. K. Lee  
Dr. R. Lee  
Dr. D. Leung  
Dr. R. Leung  
Dr. H.C. Levant  
Dr. J. Levine  
Dr. M. Levine  
Dr. J. Levitt  
Dr. E. Lewandowski  
Dr. P. Lichtblau  
Dr. B. Liebgott  
Dr. B. Lin  
~Dr. D. Lin  
Dr. L. Lindsay  
Dr. R. Listrom  
Dr. L. Lo  
Dr. J. Lok  
Dr. K. MacDonald  
~Dr. J. MacDonald  
Dr. R. MacMillan  
Dr. M. Madhavji  
Dr. J. Madras  
Dr. A. Mair  
Dr. J. Maltz  
Dr. J. Mantzoris  
Dr. R. Marcus  
Dr. S. Markin  
Dr. J. Marko  
Dr. C. Martine  
Dr. I. Martino  
~Dr. S. Masse  
Dr. M. Mazariegos  
Dr. L.J. McTague  
Dr. A. Meghji  
Dr. G. Metz  
Dr. M. Mirfendereski  
Dr. L. Missulawin  
~Dr. V. Mittal  
Dr. P. Model  
Dr. M. Mohsen  
Dr. A. Moncarz  
Dr. V. Moncarz

Dr. F. Montis  
Dr. H. Munroe  
Dr. L. Naderiani  
Dr. K. Nagai  
Dr. A. Najafi  
~Dr. S. Naslenas  
Dr. N. Naurato  
Dr. E. Nemeth  
Dr. S. Newman  
Dr. E.R. Nezon  
~Dr. I. Nish  
Dr. V.L.T. Nguyen  
Dr. D. Nilfourishan  
Dr. D. Nixon  
Dr. P. Nkansah  
Dr. C.M. Oprescu-  
Havriliuc  
Dr. G. Organ  
Dr. A. Ouanounou  
Dr. J. Oxner  
Dr. E. Paomees  
Dr. S. Patel  
Dr. M. Patrician  
~Dr. M. Pavone  
Dr. D. Paz  
Dr. G. Pearson  
Dr. W. Pei  
Dr. M. Pellos  
Dr. K. Perschbacher  
Dr. A. Pinto  
Dr. A. Plaitis  
Dr. S. Polymeneas  
Dr. F. Pomposo  
Dr. C. Pop  
~Dr. D. Psutka  
~Dr. W. Pulver  
Dr. H. Ragnitz  
Dr. E. Raimondo  
Dr. L. Raley  
Dr. A. Rawji  
Dr. R. Rayman  
Dr. L. Reynolds  
Dr. S. Richmond  
Dr. N. Riekenbrauck  
~Dr. B. Rittenberg  
Dr. O. Rodrigues  
Dr. P.A. Romano  
Dr. J. Rosenbloom  
Dr. M. Ross  
Dr. M. Rosso  
Dr. A. Rousseau  
Dr. B. Rubinoff  
Dr. L. Rucels  
Dr. Z. Sadeghinejad  
Dr. M. Safa  
Dr. S. Safa  
Dr. H. Sakarya  
Dr. J. Sakarya  
Dr. B. Saltzman  
Dr. N. Sanci  
Dr. S. Sanei

~Dr. N. Shapera  
 Dr. T. Schipper  
 ~Dr. R. Schlosser  
 Dr. A. Schmitt  
 Dr. L. Schuckova  
 Dr. M. Schwartz  
 Dr. L. Schwartzben  
 Dr. D. Segal  
 Dr. E. Selnes  
 Dr. A. Seth  
 ~Dr. N. Shapera  
 Dr. Q.H.M. Shawket  
 Zaman  
 Dr. M. Shelegey  
 Dr. E. Shem-Tov  
 Dr. W. Shim  
 Dr. A. Shojaei  
 ~Dr. P. Sikorski  
 Dr. F. Simone  
 Dr. A. Smart  
 Dr. H. Smith  
 Dr. S. Smith  
 Dr. A. Sokolowski  
 Dr. G. Solomon  
 Dr. A. Somasundaram  
 ~Dr. P. Son  
 Dr. A. Sonza  
 Dr. T. Sosath  
 Dr. P. Sougajam  
 Dr. J. Staibano  
 Dr. B. Stanley  
 Dr. V.F. Stavro  
 Dr. H. Steiman  
 Dr. M. Stein  
 ~Dr. K. Stevens  
 Dr. A.J. Stokl  
 Dr. S. Strauss  
 Dr. S. Suri  
 ~Dr. I. Suwwan  
 Dr. O. Symington  
 Dr. K. Szainwald  
 Dr. J. Tai  
 Dr. T. Tarmet  
 Dr. M. Taskov  
 ~Dr. H. Taub  
 ~Dr. M. Taylor  
 Dr. Michael Taylor  
 Dr. E. Tehrani  
 Dr. H. Tile  
 Dr. M. Tirgari  
 Dr. C. Tjan  
 Dr. J.L. Tomkins  
 Dr. E. Trohatos  
 Dr. C. Torneck  
 Dr. W. Turner  
 Dr. O. Usman  
 Dr. S. Vallipuram  
 Dr. R. Varshney  
 Dr. S. Vasilakos  
 Dr. B. Vavaroutsos  
 ~Dr. B. Vendittelli

Dr. E. Venerus  
 Dr. J. Voudouris  
 Dr. T. Voutsas  
 Dr. S. Waese  
 Dr. R. Walker  
 Dr. P.R. Walshaw  
 Dr. P. Walton  
 Dr. B. Waters  
 Dr. B. Waxman  
 Dr. E. Weidman  
 Dr. M. Weinstein  
 Dr. A. Weisblatt  
 Dr. F. Weizenberg  
 Dr. L. West  
 Dr. G. Westman  
 Dr. J.R. Wiles  
 Dr. J. Willenburg  
 ~Dr. Y. Woloszczuk  
 Dr. A. Wong  
 Dr. N. Wong  
 Dr. S. Wylie  
 Dr. C. Yamin Lacouture  
 Dr. L. Yang  
 Dr. R.M. Yarascavitch  
 ~Dr. D. Yarmand  
 Dr. S. Yeh  
 Dr. D. Yim  
 Dr. W.S. Yim  
 Dr. D. Yokota  
 Dr. S. Young  
 Dr. S. Yuen  
 Dr. F. Yung  
 ~Dr. N. Zaidi  
 Dr. M. Zahran  
 Dr. S. Zarrabian  
 Dr. M. Ziedenberg  
 Dr. Z.N. Zinman  
 Dr. V. Zogala  
 Dr. J. Zosky  
 Dr. P. Zung

~Status Only

**Lecturers in Dentistry  
2011-2012**

Dr. G. Ande4rson  
 Dr. S. Fireman  
 Dr. C. Friedman  
 Dr. S. Goldstein  
 Dr. P. Levin  
 ~Dr. D. McFarlane  
 Dr. R. Silverstein

~Status Only

**Affiliated Teaching**

**Hospitals**

Hospital for Sick Children  
 Mount Sinai Hospital  
 Sunnybrook Health  
 Sciences Centre  
 University Health Network  
 Toronto Rehabilitation  
 Institute  
 Bloorview Kids Rehab



# 2 Doctor of Dental Surgery

Note: The regulations in Section 8 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.

The following admission guidelines apply to domestic applicants, i.e. Canadian citizens and permanent residents. A limited number of positions are also available for international students. (See sections on "International Applicants" and "International Transfer Requests").

### Academic Requirements

Applicants must have completed three years of university education (i.e. at least 15 full year courses or equivalent) in a program that demonstrates focus and coherence in education. In order to be eligible for admission consideration, we must consider this education to be equivalent to three years of undergraduate education at the University of Toronto.

This education must have included the following series of courses:

-a full course (1 full year or 2 half year courses) in general biochemistry. This course should cover protein chemistry and the chemistry of other biomolecules, cellular metabolism and molecular biology.

-a full course (1 full year or 2 half year 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.

-two additional full courses (2 full year or 4 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.)

-one full course (1 full year or 2 half year 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.)

The earliest time at which applicants may apply is during the third year of their program at a recognized university. Any courses completed after May 31, 2013 will not be considered for admission to the 2013-2014 session.

A minimum current grade point average of 3.0 (4.0 scale) is required.\* However, a grade point average of 3.0 (i.e. B) at the time of application does not guarantee selection. It should be noted that last year, the minimum GPA for those interviewed was 3.75 (4.0 scale).

It is recommended that applicants follow a program of study that will provide them with an educational background in keeping with their own interests and possible career opportunities should they not be accepted into Dentistry.

Note that courses taken during the 2012-2013 academic year 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 2012-2013 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.

#### **Citizenship and Residence**

Applicants must be Canadian citizens or permanent residents on or before the deadline for application. A maximum of 10% of the first year places may be offered to out-of-province applicants.

#### **Dental Aptitude Test**

Applicants are required to take the Dental Aptitude Test (DAT) administered by the Canadian Dental Association and to arrange for their test results to be forwarded to the Admissions Office. The DAT is designed to measure general academic ability, comprehension of scientific information, perceptual ability and manual dexterity.

The Canadian DAT is offered twice each academic year (November and February). The Academic Average (AA) and Perceptual Ability Test (PAT) scores are part of the admission process. If the test is written more than once, the highest set of DAT scores will be used. **The**

**DAT must have been taken within two calendar years prior to the application deadline.** Tests taken more than two years prior to the application deadline will not be considered. The valid test dates for September 2012 entry are February 2011, November 2011, February 2012 and November 2012.

In order to register for the DAT you must complete the online application form on the Canadian Dental Association's website at: [www.cda-adc.ca](http://www.cda-adc.ca). Further information may be obtained from The Canadian Dental Association, 1815 Alta Vista Drive, Ottawa, Ontario, Canada K1G 3Y6. Telephone: (613) 523-1770; Fax: (613) 523-7736; Email: [dat@cda-adc.ca](mailto:dat@cda-adc.ca); Web site: [www.cda-adc.ca](http://www.cda-adc.ca).

The American Dental Admission Test (DAT) is an acceptable equivalent for applicants living outside of Canada. Further information may be obtained from ADA Department of Testing Services, Dental Admission Testing Program, American Dental Association, 211 East Chicago Avenue, Suite 600, Chicago, IL 60611 USA. Telephone: (800) 232-1694; Fax: (312) 440-7494; Email: [datexam@ada.org](mailto:datexam@ada.org); Web site: [www.ada.org/dat.aspx](http://www.ada.org/dat.aspx).

#### **English Facility Requirements**

All applicants must be proficient in both written and spoken English. Applicants whose first language (i.e. the language learned at home as a child) is not English and who have completed less than four years of full-time academic study in an English language school system located in a country where English is the primary language, are required to achieve an appropriate standard in a recognized test of English facility. 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.

However, we will exempt from English facility testing any applicant who has successfully completed, with grades of "C" or higher, at least four full degree courses, including at least one full course in English, Social Sciences or Humanities, taught in English, in a recognized English-medium university located in a country where English is the primary language. We will also exempt from English facility testing any applicant who is a bilingual francophone and who has satisfactorily completed at least four years of full-time academic study in the Canadian school system.

*Acceptable proof of English facility must be submitted by the application deadline.* If acceptable proof of English facility is not received by the application deadline, the application will be cancelled. Tests taken more than two years prior to the application deadline will not be considered. Official test scores must

be sent by the testing agency directly to the Admissions Office, Faculty of Dentistry, University of Toronto. The following tests are recognized:

**Test of English as a Foreign Language Paper-based Test (TOEFL PBT) and the Test of Written English (TWE), and Internet Based TOEFL (IBT).**

Those who present the paper-based TOEFL must ensure that the Test of Written English (TWE) is also available on their test date.

**Minimum Requirement**

TOEFL PBT - total score 600+5.0 on TWE  
TOEFL IBT - total score 100+22 on Writing  
Note: The TOEFL Institution Code is 0982-00.

TOEFL/TWE Bulletins may be obtained from American embassies and consulates, offices of the United States Information Service (USIS), or you may contact TOEFL Services, Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151 USA. Telephone: (609) 771-7100; Fax: (609) 290-8972; Email: [toefl@ets.org](mailto:toefl@ets.org); Web site: [www.ets.org/toefl](http://www.ets.org/toefl). You may also pick up a TOEFL CBT Bulletin at Enrolment Services, University of Toronto, 172 St. George Street, Toronto, ON M5R 0A3. Telephone: (416) 978-2190; Web site: [www.adm.utoronto.ca](http://www.adm.utoronto.ca).

**International English Language Testing System (IELTS).**

The minimum requirement is an overall band of 6.5, with no band below 6.0. For information about this test, world-wide test centres and registration procedures, you may contact The IELTS Office at [www.ielts.org](http://www.ielts.org). You may also contact the Ontario Test Centre at: IELTS Test Center, Conestoga College, 299 Doon Valley Drive, Kitchener, ON N2G 4M4. Telephone: (519) 748-3516; Fax: (519) 748-6289; E-mail: [ieltshep@conestogac.on.ca](mailto:ieltshep@conestogac.on.ca); Website: [www.ieltscanada.ca](http://www.ieltscanada.ca). A Toronto Test Centre has opened at: GVT Exams Inc., IELTS Administrator, 180 Bloor Street West, Suite 202, Toronto, ON M5S 2V6. Telephone: (416) 209-6685; Fax: (416) 968-6667; Email: [info@ieltstoronto.com](mailto:info@ieltstoronto.com); Website: <http://www.ieltstoronto.com>.

**Michigan English Language Assessment Battery (MELAB).**

The minimum requirement is an overall score of 85, with no part below 80. Information Bulletins and Registration Forms may be obtained from CaMLA, Argus 1 Building, 535 West William Street, Suite 310, Ann Arbor, MI 48103-4978, USA. Telephone: (734) 615-9629; Fax: (734) 763-0369; Email: [info@cambridgemichigan.org](mailto:info@cambridgemichigan.org);

Website: [www.cambridgemichigan.org/melab](http://www.cambridgemichigan.org/melab) or the Toronto MELAB Centre website: [www.melab.ca](http://www.melab.ca).

Applicants in the Toronto area may register in-person at the Toronto MELAB Centre, 45 Willcocks Street, Toronto, ON M5S 1C7. Telephone: (416) 946-3942; Fax: (416) 946-0337; E-mail: [info@melab.ca](mailto:info@melab.ca). You may also pick up a MELAB Bulletin at Enrolment Services.

**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 Reading and Listening. Currently available in Toronto only. COPE Information Bulletins with registration forms and sample questions may be picked up at Enrolment Services, or you may contact COPE Testing Ltd., 7B Pleasant Blvd., Box 957, Toronto, ON M4T 1K2 (note: this is a mailing address only). Telephone: (416) 962-2673; Email: [info@copetest.com](mailto:info@copetest.com). Complete information, including a downloadable registration form, is available at web site: [www.copetest.com](http://www.copetest.com).

**Procedures for Application**

Application forms and information brochures for the 2013 academic year may be downloaded from the Faculty web site at: [www.utoronto.ca/dentistry](http://www.utoronto.ca/dentistry).

It is the responsibility of the applicant to complete the application form accurately and to provide all information punctually. Documents will not be returned to applicants. For administrative purposes only, we encourage applicants to submit their applications as early as possible. The Undergraduate Admission Committee reserves the right to request additional information prior to selection.

**December 3, 2012: APPLICATION DEADLINE.** Application forms accompanied by the non-refundable application service fee of \$250 CDN, and proof of Canadian citizenship must be received in the Admissions Office by December 3, 2012. Official transcripts and certificates covering all previous university and other post-secondary education and, if applicable, proof of English facility must be received in the Admissions Office. Note: Applicants attending the University of Toronto are not required to arrange for transcripts if their complete academic record appears on the Student Record System (ROSI).

**International Students**

A person is eligible to apply to the D.D.S. program as an international student if he/she can enter or is already in Canada with a Student Authorization (Visa). International student status will govern the level of tuition fees to be

paid annually. International students must compete directly with domestic students for available spaces.

#### **Graduate Students**

Applicants must apply in accordance with the general guidelines. Individual consideration will be given to grades achieved in graduate school. Applicants must arrange for a letter from their Graduate Supervisor to be submitted with their application establishing student progress in their program along with expected completion date to the Admissions Office by the application deadline. Normally, students in the D.D.S. program are not permitted to register concurrently in any other program of study. Therefore, in order to be eligible for admission, applicants currently enrolled in a graduate program must have completed all graduate degree program requirements, including the thesis defense (if applicable), by August 15 of the proposed year of entry. Confirmation of degree completion will be required.

#### **Aboriginal Peoples**

The Faculty of Dentistry welcomes applications from aboriginal 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 31<sup>st</sup> 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 **July 1, 2013**. 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

#### **International Transfer Requests**

International applicants currently enrolled in a foreign Dental School who wish to transfer to the Faculty of Dentistry at the University of Toronto must meet all academic and English facility requirements for admission into first year. Normally, successful applicants would be admitted into the first year of the D.D.S. program, although applicants with appropriate qualifications may be considered for admission into second year (not third or fourth year), SPACE PERMITTING. 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 admission consideration into second year. Applicants who are not successful

in their international transfer request and who still wish to be considered for admission in to the first year of the program must apply directly for admission into the first year. The deadline to apply to the first year of the DDS program is **December 3, 2012**. Requests for transfer must be received by the application deadline of **July 1, 2013**. 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

### **Selection of Applicants**

The selection of applicants is made by the Undergraduate Admission Committee, which 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. Decisions of the Committee are based upon academic achievement, DAT scores (excluding transfers), the interview process, personality test scores, and other relevant information. In making its decisions the Committee takes all of this information into consideration.

Applications will be reviewed after the application deadline. Applicants who are considered to have potential based on their application documents will be invited for an interview. Final selection will be made from this group of applicants.

### **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 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 TCard 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's 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 pre-clinical courses. Clinical comprises the preclinical laboratory courses of First and Second Years (Restorative Dentistry, Biomaterials, Orthodontics/Paedodontics 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 disciplines concerned.

#### 5. The University of Toronto IPE Curriculum/ Program

The University of Toronto (IPE) curriculum/ program builds upon a rich history of IPE and is focused on the development of specific values and core competencies across eleven health professional programs (dentistry, medical radiation sciences, medicine, nursing, occupational therapy, pharmacy, physician's assistants, physical education and health, physical therapy, social work and speech-language pathology). The knowledge, skills/behaviours and attitudes developed through the IPE curriculum/program will enable students to provide collaborative patient/client-centred care in an interprofessional context.

The IPE curriculum/program started in 2009 and is being phased-in across the health professional faculties. This comprehensive curriculum/program includes the following four core learning activities:

- 1) Year 1 - Teamwork;
- 2) Conflict in Interprofessional Life;
- 3) Case-Based: Pain - Palliative Care;
- 4) IPE Component in a Clinical Placement.

As well, students complete elective learning activities in order to cover all IPE values and core competencies and to meet individual learning needs and interests. Student learning will be assessed to ensure successful

completion.

#### Dentistry

For students entering Dentistry in 2011 (i.e. the 2011 – 2012 IPE entry cohort), successful completion of **two** elective learning activities (any colour) 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 disciplines or course directors in the evaluation of a student's performance. Unavoidable absence 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 pre-clinical 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 medical certificate 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.

#### Planned absences:

- All planned absences to be reported to Student Services
- Any planned extended absence of three or more consecutive days must be requested in writing at least two weeks in advance of the scheduled absence
- Requests to be submitted to the Student Services Office for approval by the Undergraduate Grading Practices Committee.

#### 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 Grading Practices Committee.

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.

#### 7. Suspension

A student whose work or conduct is judged by Faculty Council 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.

## Standing

#### 10. Standing

Faculty Council annually approves a list of subjects and clinical requirements for each year of the D.D.S. program in which students must obtain standing in order to advance to a higher year or to graduate. Generally, students promoted to final year will graduate, but the time taken to graduate may be variable. Standing is obtained following final examination and the satisfactory completion of all clinical assignments.

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.

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 aegrotat standing or (2) write the examination during the supplemental examination period.

#### 11. Aegrotat Standing

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

#### 12. 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 supplementals in any one academic year.

#### 13. Consequences of Failure to Obtain Standing

Students who fail to obtain standing, either by having failed more than two subjects or by having failed a clinical course other than the Clinical Comprehensive Care Program

examinations or by having failed one or more supplemental examinations, (other than the Clinical Comprehensive Care Program supplementals in which case Section 14 applies), before advancing to the next year or graduating, 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- in the first attempt.

Any student who fails on two occasions to receive the right to advance to a higher year or to graduate shall be refused further registration in the Faculty.

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

For any student who fails the supplemental oral and/or written examinations for the 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 repeating fourth 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 medical certificate or other satisfactory evidence to the Faculty Registrar. The course director will inform the student concerning the action that will be taken with respect to the missed term test. If the student is not satisfied with this action he or she may see the Faculty Registrar about submitting a petition.

In courses where no final examination is scheduled, or which extend longer than one academic year, the department 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.

#### **16. Eligibility for Final Examinations**

A student whose term work in a course is unsatisfactory may be prevented by Faculty Council 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 Faculty Council 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 who is delegated by the Undergraduate Grading Practices Committee 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 by two or more disciplines 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 #5 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 Council 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, endeavour 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 results 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 \$13 fee is charged for a petition to recalculate a grade and a \$36 fee is charged 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, and instructors may 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.

## **Evaluation**

Governing Council approved a revised University Grading Practices Policy in September 1998. 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.

#### **21. 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. The University's Governing Council has granted the Faculty exemption from this general rule for a small number of courses.

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.

#### **22. Preclinical Evaluation**

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

#### **23. Clinical Evaluation**

Evaluations of the clinical work of students are made by clinical staff of the Faculty. Grades in clinical courses are derived (a) from the day-to-day performance values obtained in each clinical discipline 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 or department head 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 clinical departments will prevent a student from being promoted to Fourth Year or from graduating.

#### 24. Grading

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

<i>Didactic, Preclinical and Clinical Courses</i>			
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 petition. 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.

The passing mark in all courses and components of courses is 60% (grade C-). The manner in which marks from term work and final examinations are combined to obtain the final letter grade can be seen in the document "Methods of Course Evaluation." 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.

#### 25. 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.

#### 26. Graduating with Honours

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

#### 27. 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/licences 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.

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

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

*Manitoba:* Dr. M.A. Lasko, Registrar, Manitoba Dental Association, 698 Corydon Avenue, Suite 103, Winnipeg, Manitoba, R3M 0X9, (204) 988-5300

*New Brunswick:* Mr. P. Wilbur, 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:* Dr. P. O'Brien, Registrar, Newfoundland Dental Board, 6th Floor, The Fortis Building, 139 Water Street, St John's, Nfld., A1C 1B2, (709) 579-2391

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

*Nunavut:* Nunavut Registrar's Office, P.O.

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

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

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

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

*North West Territories:* Mrs. J. Hall, Registrar, Professional Licencing, Government of the North West Territories, Health and Social Services, 8<sup>th</sup> Floor, Centre Square Tower, P.O. Box 1320, Yellowknife, N.W.T., X1A 2L9, (867) 920-8058

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

### Licence 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 an 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, 2<sup>nd</sup> Floor, Ottawa, ON K1P 4R2, (613) 236-5912.

## CURRICULUM 2012-2013

<b>FIRST YEAR</b>						
<b>Course No.</b>	<b>Course Title</b>	<b>Lecture Hours</b>	<b>Seminar Hours</b>	<b>Laboratory Hours</b>	<b>Total Hours</b>	<b>Course Weights</b>
DEN103Y1	Dental Public Health I	28	0	0	28	0.25
DEN106Y1	Gross Anatomy	71	0	114	185	1.25
DEN109H1	Histology	42	0	38	80	0.50
DEN112Y1	Intro to Clinical and Preventive Dentistry	18	0	89.5	107.5	0.00
DEN115H1	Nutrition	21	0	0	21	0.25
DEN118H1	Dental Anatomy and Occlusion	30.5	0	60.5	91	0.50
DEN121Y1	Biological Basis of Oral Health/Disease	55.5	0	0	55.5	0.50
DEN124Y1	Microbiology	44	13	12	69	0.50
DEN130H1	Restorative Dentistry (Didactic)	44	0	0	44	0.50
DEN150Y1	Biomaterials Science	26	0	99	125	0.75
DEN177H1	Prosthodontics	15	0	49	64	0.50
DEN180H1	Restorative Dentistry (Pre-Clinical)	0	0	79.5	79.5	0.50
DEN199Y1	Intro to Comprehensive Care Clinic I	29	0	86	115	CR/NCR
<b>Total Hours</b>		424	13	627.5	1064.5	6

<b>SECOND YEAR</b>							
Course No.	Course Title	Lecture Hours	Seminar Hours	Laboratory Hours	Clinic Hours	Total Hours	Course Weights
DEN200H1	Anaesthesia	14	0	0	5	19	0.25
DEN202H1	Communication Skills	0	6	0	0	6	CR/NCR
DEN203H1	General Pathology	41	28	0	0	69	0.50
DEN207Y1	Dental Public Health II	25	15	0	0	40	0.25
DEN208H1	Endodontics	30.5	0	54	0	84.5	0.50
DEN211Y1	Periodontics	36	0	0	0	36	0.25
DEN212Y1	Pharmacology	50	28	0	0	78	0.75
DEN215H1	Preventive Dentistry & Clinical Nutrition	21	11	0	0	32	0.25
DEN218Y1	Restorative Dentistry (Didactic)	64	0	0	0	64	0.75
DEN219H1	Medicine	21	0	0	0	21	0.25
DEN222H1	Orthodontics *	16	28	0	28	72	0.50
DEN223H1	Paediatric Dentistry	17.5	0	19.5	0	37	0.25
DEN250H1	Advanced Biomaterials Science	0	0	42	0	42	0.25
DEN277Y1	Prosthodontics	34	0	116	0	150	1.00
DEN280Y1	Restorative Dentistry (Clinical)	0	0	168.5	0	168.5	0.75
DEN299Y1	Intro to CCP II – Prev. & Perio. Services	41	0	0	96	137	CR/NCR
<b>Total Hours</b>		<b>411</b>	<b>116</b>	<b>400</b>	<b>129</b>	<b>1056</b>	<b>6.5</b>

\* Clinic Hours include Clinical Preventive Dentistry

<b>THIRD YEAR</b>							
<b>Course No.</b>	<b>Course Title</b>	<b>Lecture Hours</b>	<b>Seminar Hours</b>	<b>Laboratory Hours</b>	<b>Clinic Hours</b>	<b>Total Hours</b>	<b>Course Weights</b>
DEN301Y1	Anaesthesia	14	0	0	3	17	0.25
DEN303H1	Endodontics	21	0	0	0	21	0.25
DEN307Y1	Introduction to Intra-Oral Surgery	6	0	0	0	6	0.00
DEN308Y1	Dental Public Health III	18	0	0	0	18	0.25
DEN315Y1	Oral Medicine and Pathology	54	14	14	0	82	0.75
DEN317Y1	Oral Radiology	27	0	0	38.5	65.5	0.75
DEN318Y1	Oral and Maxillofacial Surgery	37.5	2.5	0	20	60	0.50
DEN322Y1	Orthodontics (Didactic)	28.5	0	0	0	28.5	0.25
DEN323Y1	Paediatric Dentistry (Didactic)	24	0	0	0	24	0.25
DEN324Y1	Periodontics (Didactic)	25	0	0	0	25	0.25
DEN327H1	Pharmacology	21	0	0	0	21	0.25
DEN333Y1	Prosthodontics (Didactic)	16	0	0	0	16	0.25
DEN336Y1	Restorative Dentistry (Didactic)	11.5	0	0	0	11.5	0.25
DEN356Y1	Oral Diagnosis and Oral Medicine	17	15.5	0	79.5	112	1.00
DEN365Y1	Orthodontics (Clinical)	0	0	0	55	55	0.50
DEN371Y1	Periodontics (Clinical)	0	0		75	75	0.75
DEN374Y1	Preventive Dentistry	10	10	*	*	20	0.25
DEN377Y1	Prosthodontics (Clinical)	0	0		75	75	0.75
DEN380Y1	Restorative Dentistry (Clinical)	0	0		83	83	0.75
DEN383H1	Biological Basis of Oral Health and Disease—Practical Applications I	0	0	3	0	3	CR/NCR
DEN409Y1	Practice Administration	40.5	0	0	0	40.5	0.00
DEN450Y1	Comprehensive Care Program			*	*	0	0.00
<b>Total Hours</b>		<b>371</b>	<b>42</b>	<b>17</b>	<b>429</b>	<b>859</b>	<b>8.25</b>

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 June.

<b>FOURTH YEAR</b>							
<b>Course No.</b>	<b>Course Title</b>	<b>Lecture Hours</b>	<b>Seminar Hours</b>	<b>Laboratory Hours</b>	<b>Clinic Hours</b>	<b>Total Hours</b>	<b>Course Weights</b>
	Clinical Conferences	12	0	0	0	12	
	Electives					0	
DEN400H1	Anaesthesia	0	0	0	6	6	CR/NCR
DEN403H1	Case-Based Learning	0	29.5	0	0	29.5	0.25
DEN406Y1	Ethics, Jurisprudence & Practice	28	0	0	0	28	0.25
	Administration	21	0	0	0	21	0.25
DEN450Y1	Comprehensive Care Program	0	10	0	175	185	1.75
DEN451Y1	Comprehensive Care (didactic)	40.5	2.5	0	0	43	0.50
DEN453Y1	Endodontics	12	0	0	98	110	1.00
DEN456Y1	Oral Diagnosis & Oral Medicine	0	0	0	97.5	97.5	1.00
DEN459Y1	Oral Radiology	0	0	0	17.5	17.5	0.25
DEN462Y1	Oral & Maxillofacial Surgery	14	0	0	62.5	76.5	0.75
DEN465Y1	Orthodontics	13	0	0	30	43	0.50
DEN468Y1	Paediatric Dentistry	0	0	0	80	80	0.75
DEN471Y1	Periodontics	0	0	0	75	75	0.75
DEN474Y1	Preventive Dentistry	0	0	0	*	0	0.25
DEN477Y1	Prosthodontics	14	0	0	75	89	1.00
DEN480Y1	Restorative Dentistry	9	0	0	75	84	0.75
DEN483H1	Biological Basis of Oral Health and Disease – Practical Applications II	0	0	3	0	3	CR/NCR
<b>Total Hours</b>		163.5	42	3	791.5	1000	10

\* Clinical Practice includes all aspects of clinical practice. No accurate division into specific disciplines is feasible.

\*\* Includes Hospital Assignments (20 hours)

Note: For the D.D.S. program, the first digit indicates the year of the course, the next two digits indicate whether the course is didactic (0-49) or clinical (50-99), the letter indicates the course length (H, half year or Y, full year). The final digit indicates all courses are given on the St. George campus of the University of Toronto. Some courses are given over two years and the grade is assigned at the course end.

# COURSE DESCRIPTIONS

## Doctor of Dental Surgery

### First Year

The dental course is designed to unify the fundamental sciences and dental studies, as it is believed that scientific and professional development cannot be sharply differentiated, but should proceed concurrently throughout the entire dental course.

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 the population's 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 dental caries, periodontal disease, oral cancer, and orofacial diseases, 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

Although society has established health professions and delegated its health care to them, issues continue to arise between society and the profession. This module explores the nature of these issues from both society's expectations and the profession's perspective. The specific topics vary from year to year and guest lecturers who have special insights often provide the lectures in this module.

Text: Daly B, Watt R, Batchelor P, Treasure E. *Essential dental public health* (1<sup>st</sup> edition). Oxford: Oxford University Press, 2002 (recommended). Handouts: supplied in class.

C. QUIÑONEZ, STAFF

#### DEN106Y1 Gross Anatomy

This course is designed to provide a general understanding of the gross structure and function of the human body from conception to old age. 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 dissect the abdomen, thorax, neck, head and brain in order to complement and reinforce the lecture series.

Texts: Refer to course outline.

J. LAPRADE, STAFF

#### DEN109H1 Histology

This course deals with the microscopic structure of the human body with special emphasis on the components of the oral cavity. During the first half of the course the microscopic anatomy of the tissues of the body and the body organ systems is presented. The second half of the course deals in detail with the development and microscopic structure of the oral tissues.

The lectures are complemented with computer-based sessions utilizing an online virtual slide box. Course content is delivered using the Blackboard™ learning management system.

Texts: Oral Histology, Development, Structure and Function, 8<sup>th</sup> Edition, A.R. Ten Cate, C.V. Mosby Co. 2012 (recommended); Wheeler's



Functional Histology. A Text and Colour Atlas. 5<sup>th</sup> Edition, 2006, Young & Heath (recommended)  
D. CHUGH, STAFF

### **DEN112Y1 Introduction to Clinical and Preventive Dentistry**

The Introduction to Clinical and Preventive Dentistry (ICPD) provides the student with an introduction to basic methodology and concepts for assessing oral health status using lectures, seminars, and clinical sessions. The course is divided into three components.

Part 1: The **Periodontal Module** is an introduction to periodontal assessment skills of periodontal probing and calculus detection. Students will use patient simulators and practice on each other. Emphasis is placed on the development of fundamental skills such as ergonomics, patient/operator positioning, direct/indirect vision, and instrument grasp and fulcrum.

Part 2: The **Rotating Group Assignments (RGA)** are a series of rotating seminars and clinical sessions that address unique patient groups (i.e., special needs, geriatric, dentally anxious), patient education and communication. Clinical experiences include oral self care, selective polishing and topical fluoride sessions.

Part 3: **ICPD Clinical** Module introduces oral diagnosis and preventive dentistry. Students will practice history taking and clinical examination; caries risk (i.e., caries risk assessment, salivary analysis, oral hygiene instruction); and periodontal health status (i.e., gingival bleeding index, plaque scoring). The relevance of this information is discussed in planning an appropriate preventive treatment plan to meet individual patient needs.

Manuals: Introduction to Clinical and Preventive Dentistry Part 1 and Part 3 Student Manuals; Discipline of Oral Medicine Manual  
Texts: Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation. 6th ed. J.S. Nield-Gerhrig, 2008 (reference)  
Periodontal Instrumentation. 2<sup>nd</sup> ed. A.M. Patterson, G.L. Patterson, 1992 (reference)  
Techniques and Theory of Periodontal Instrumentation. D.A. Perry, P. Beemsterboer, F.A. Carranza, 1990 (reference)  
M. CLARKE, STAFF

### **DEN115H1 Nutrition**

This course provides an overview of the importance of nutrition to overall health and builds on principles covered previously in

biochemistry and physiology. The fundamental concepts and scientific basis for official Nutrition Recommendations are covered, and key nutrients relating to prevalent lifestyle diseases are highlighted. A series of nutrition specialists provide insight into current issues of interest to consumers and health professionals. The application and integration of healthy eating messages in the dental setting is emphasized.  
Texts: Supplementary Notes (Department of Nutritional Sciences) required given in class. Supplementary Text, Nutrition, Concepts and Controversies,Sizer and Witney, 6th ed., West Publishing Co., 1994 (reference)  
D. HENNEY, STAFF OF THE DISCIPLINE OF NUTRITIONAL SCIENCES

### **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.  
Texts: (a) Dental Anatomy Atlas; (b) Pediatric Dentistry Manual; Faculty of Dentistry; Department of Pediatric Dentistry; University of Toronto (9<sup>th</sup> edition – 2006); (c) Damle SG. Textbook of Pediatric Dentistry (1<sup>st</sup> edition – 2000); (d) DADAS version 1.0. John T. Mayhall & Phillip L. Walker; (e) Abrams J. Kraus' Dental Anatomy and Occlusion (2<sup>nd</sup> edition – 1992)  
A. PRAKKI, 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. These lectures are complemented by laboratory sessions in Oral Biochemistry. References and course content are available to students on Blackboard.

Text: Oral Biology, Roth and Calmes, C. V. Mosby Co. (reference)

G. NOGUEIRA, B.J. SESSLE, STAFF

#### **DEN124Y1 Microbiology**

The course covers basic, pathogenic and oral microbiology and immunology. Its objective is to provide the dental student with an understanding of microorganisms and of 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. Special emphasis is placed on the concept of dental caries and periodontal disease as infectious diseases, and their possible prevention using antimicrobial strategies.

Texts: Oral Microbiology and Immunology, Nisengard and Newman, 2nd Ed., W. B. Saunders (reference)

Oral Microbiology E-Book, Marsh and Martin, 5th Ed., Van Nostrand Reinhold (reference)

The Biologic and Clinical Basis of Infectious Diseases, Shulmar, Phair and Sommers, 4th Ed., W. B. Saunders (reference)

Essential Immunology, Roitt, 8th Ed., Blackwell (reference)

T.J. MORIARTY, STAFF

#### **DEN130H1/DEN180H1 Restorative Dentistry**

These courses in restorative dentistry begin early in January. The students are 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 on ivory teeth in a manikin head for clinical simulation.

Texts: First Year Operative Manual (required) Fundamentals of Operative Dentistry - A Contemporary Approach, Summit, Robbins and Schwartz, 3rd Ed., Quintessence Books, 2006.

(required). Craig's Restorative Dental Materials, Powers and Sakaguchi, 12th Ed., C.V. Mosby Co. 2006 (reference), Phillips' Science of Dental Materials, Anusavice-11<sup>th</sup> edition, Saunders, Elsevier Science 2003 (reference)

G.M.D. 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.

Text: Phillip's Science of Dental Materials: K.J. Anusavice, W.B. Saunders Co., 11th Edition

Y. FINER, STAFF

#### **DEN177H1 Prosthodontics**

Prosthodontics is a clinical discipline 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 1<sup>st</sup> 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 pre-clinical 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.

Texts: Teaching material located on Intranet: <http://sp.dentistry.utoronto.ca/prostho/Clinical%20Procedures>; Treatment of Edentulous Patients. McCord JF, Grey N, (eds.), Churchill Livingstone, 2004 (required) Treatment of Completely Edentulous Patients. Compendium. Prosthodontics 2011 (reference).

A. ALKUMRU, A. JOKSTAD, STAFF

### **DEN199Y Introduction to Comprehensive Care Clinics I**

The course is designed to prepare students for pre-clinical and clinical assignments in the Comprehensive Care Clinics. Lectures, lab assignments and dental assisting practice, in most of the undergraduate Faculty clinics, will allow the student to become familiar with the clinic environment and the dentistry provided in the Comprehensive Care Program.

The lectures provide the student with an understanding in all aspects of Infection Prevention and Control (IPAC), Privacy Acts (PIPEDA & PHIPA), WHMIS, and the fundamentals of dental assisting. The practical exercises which accompany the lectures allow the student to translate the knowledge into practical application to carry out clinical infection control measures. Upon completion of the course the student should possess the appropriate didactic and practical knowledge to be able to apply IPAC principles in a dental clinical setting as well as have a good understanding of the fundamentals of dental assisting as well as health and safety issues in the dental practice. *This is a credit/ non-credit based course.*

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 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.

Text: Handbook of Local Anesthesia, S.F. Malamed, Mosby (required) 6<sup>th</sup> ed. 2012.

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 General Pathology**

The Department of Laboratory Medicine and Pathobiology, Faculty of Medicine, presents this

course to instruct second year students in the general principles of pathology, emphasizing pathogenetic and morphological aspects of disease. The course content includes both general and basic systemic pathology.

Texts: Robbins' Basic Pathology, 8th Edition, V. Kumar, Abbas, A.K., Fausto, N., Mitchell, R.N., 2007 Saunders Elsevier (smaller textbook). Wheater's Basic Histopathology, 4th ed., Stevens, A., Lowe, J.S., Young, B. 2002 Churchill Livingstone  
R. JOHN, STAFF

### **DEN207Y1 Dental Public Health II**

MODULE V: CLINICAL EPIDEMIOLOGY – THE SCIENTIFIC METHODS UNDERLYING EVIDENCE-BASED HEALTH CARE

This module will provide students with skills in clinical epidemiology which are needed to appraise the design and results of studies reporting on aetiology, diagnosis, prognosis, efficacy and the relative costs and benefits of interventions for conditions that affect oral health. Readings and assignments are supported by lectures to illustrate the material and demonstrate its application to clinical questions in dentistry. At the end of this module, the students will have the critical skills needed to produce a short evidence-based report on a clinical problem in Module VI.

MODULE VI: EVIDENCE-BASED CARE—SMALL GROUP LEARNING MODULE

The aim of this module is to develop applied skills in clinical epidemiology by presenting small groups of students with a clinical question to be answered, and having them communicate the results of an evidence based-report written and orally.

Text: Clinical Epidemiology: the Essentials, 4th Edition, Fletcher and Fletcher, Lippincott Williams and Wilkins, Baltimore (recommended)  
A. AZARPAZHOOH, STAFF

### **DEN208H1 Endodontics**

This course offers the student didactic and pre-clinical 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 pre-clinical courses are given during the fall and winter terms.

Both components are directed towards preparing the student to perform basic clinical endodontic procedures prior to entering the clinics in third year. Texts: Undergraduate Endodontics Manual - Faculty of Dentistry, University of Toronto (required); Pathways of the Pulp, Cohen & Hargraves, 10th Edition, C. V. Mosby Company 2011 (reference), Seltzer and Bender's Dental Pulp. Quintessence Int, 2002 (reference), Principles and Practice of Endodontics, R. Walton & M. Torabinejad, 5th Ed., Saunders 2009 (reference), Endodontic Therapy, F. Weine 6<sup>th</sup>

ed. Mosby, 2004. Essential Endodontology: Prevention & Treatment of Apical Periodontitis. Ostavil & Pitt Ford, 2<sup>nd</sup> ed., Wiley-Blackwell 2007 (reference). Essentials of Traumatic Injuries to the Teeth. Andreasen & Adreasen, 2<sup>nd</sup> ed., Blackwell Munksgaard 2001 (reference). Textbook and Color Atlas of Traumatic Injuries to the Teeth. Andreasen & Andreasen, 2<sup>nd</sup> ed., Wiley-Blackwell 2007 (reference).

A. PLAZAS-GARZON, 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 introduction to clinical 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. Texts: Clinical Periodontology, Carranza's, 10th Edition 2006 (recommended)

Periodontics: Medicine, Surgery, and Implants 2004, Rose, Mealey and Genco (recommended); Clinical Periodontology and Implant Dentistry, 5th edition, 2008 Lindhe, Karring, Lang (recommended); Color Atlas of Dental Medicine (Periodontology), Wolf, Rateitschak and Hassell, 3rd edition 2005 (reference); Fundamentals of Dental Hygiene Instrumentation, Nield & Houseman, Lea & Febiger, 2nd edition 1998 (reference)

J. LAI, R. GHILZON

### **DEN212Y1 Pharmacology**

The objective of the course is to provide students with a broad knowledge of drugs, including their fate in the body, mechanisms of action, effects and use in the treatment of disease. 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 general principles, autonomic, general anaesthetics, analgesics, anti-infectives,

central nervous system drugs, cardiovascular, respiratory and endocrine drugs, among others. Clinically relevant case studies are discussed. This course provides the basis for the third year course in pharmacology which continues with topics on therapeutics of direct importance in dental practice. Texts: Rang and Dale's Pharmacology. Rang, Dale, Ritter, Flower, Henderson. 7<sup>th</sup> ed., 2012 (reference). Principles of Medical Pharmacology, Kalant, Grant and Mitchell, 7th ed., 2007 (reference), Basic and Clinical Pharmacology. Katzung, Masters, Trevor. 12<sup>th</sup> ed., 2012 (reference).

J. LANÇA, H.A. GRAD, STAFF

#### **DEN215H1 Preventive Dentistry and Clinical Nutrition**

This course is presented in two sections:

The Preventive Dentistry component of the course is designed in a lecture series to provide the epidemiological and curative aspects of dental caries and explores the scientific basis for various clinical and public health procedures for caries prevention as well as other oral diseases. Topics include the use of mechanical and chemical plaque control and various procedures used to increase the caries resistance of teeth, i.e. occlusal sealants, topical and systemic fluoride. Texts: There are no required texts for this course.

G. NOGUEIRA, STAFF

The Clinical Nutrition deals with the practical application of healthy eating principles and includes dietary analysis and nutritional counselling, with an emphasis on the prevention of dental disease in at-risk patients. It complements instruction provided in Preventive Dentistry. Small group workshops help students develop their communication and counselling skills. Texts: Nutrition in Clinical Dentistry 3rd Edition, Nizel and Papas (reference), Dental Communications, D. W. Chambers & A. G. Abrams (reference)

D. HENNYEY, 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 restorative therapy requiring direct restorative methods. The winter

term involves preparations for laboratory-fabricated restorations. The spring term module has two components: restoration of the endodontically treated tooth and cariology. 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. All Preclinical 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. Texts: II Year Restorative Manual (required); Fundamentals of Operative Dentistry- A Contemporary Approach, Summitt, Robbins, Hilton & Schwartz, 3<sup>rd</sup> Edition. Quintessence Publishing Co. 2001 (required); Contemporary Fixed Prosthodontics. Rosenstiel, Landand, Fujimoto. 4th edition. Elsevier Mosby, 2006 (required); Fundamentals of Fixed Prosthodontics. Shillingburg, H. et al. 3rd edition. Quintessence Publishing Co. 1997 (reference); Phillips Science of Dental Materials, Anusavice, K.J. 11<sup>th</sup> ed. Saunders, Elsevier, 2003 (reference); Quality Evaluation of Dental Restorations. Anusavice, K.J. Quintessence Publishing Co. 1989 (reference)

W. EL-BADWARY, STAFF

#### **DEN219H1 Medicine**

The course is designed to provide basic knowledge of common chronic adult medical illnesses. The purpose is to both understand patients' chronic conditions as well as to have an approach to treating patients with chronic medical conditions. The relevance of the illnesses on the practice of dentistry is emphasized throughout the course. The course builds upon content learned in General Pathology and Pharmacology but provides a more clinical perspective. Evaluation: written midterm test and final exam. Text: Davidson's Principles and Practice of Medicine, 21th Ed. (required)

R. WU, STAFF

#### **DEN222H1 Orthodontics**

The Orthodontic course comprises lectures, laboratory instruction, clinical seminars, and clinical practice in the second, third and fourth years. The objective is to teach students to recognize, diagnose and intercept orthodontically the various forms of malocclusion, except those

associated with systemic diseases and abnormalities in the skeleton.

Cephalometric analysis is studied as a basis for providing knowledge of normal and abnormal facial development. During second year, students participate in lectures, case analysis seminars and laboratory exercises designed to prepare them for clinical practice in the third and fourth years. During the third and fourth years, the students participate in lectures, clinical seminars and undertake clinical practice designed to teach the etiologic factors associated with the genesis of orthodontic abnormalities.

Texts: Contemporary Orthodontics, William R. Proffit, et. al. 4<sup>th</sup> Ed., Elsevier, 2007, (required)  
S. SURI, STAFF

#### **DEN223H1 Paediatric Dentistry**

Paediatric Dentistry commences in second year and continues throughout third and fourth years. The didactic and clinical program develops the concept that Paediatric 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. The Paediatric Dentistry program is under the direction of Professor M.J. Sigal and Dr. R. Revuelta, Preclinical Program directed by Drs. J. Wiles and J. Rukavina. Text: Paediatric Dentistry Clinic Manual, 9<sup>th</sup> edition, Sigal (required)  
M. SIGAL, STAFF

#### **DEN250H1 Advanced Biomaterials Science**

The learning objective is to provide advanced knowledge of dental materials science, technologies and techniques. This course is a continuum of the dental materials course taught in first year (DEN150Y), after the students have been exposed to some basic dental clinical procedures in first and second years. The laboratory program provides direct exposure to various classes of dental materials used in advanced clinical procedures. In the laboratory the relationship of manipulation variables to microstructure, mechanical properties, biostability and clinical performance is emphasized.

Text: Phillip's Science of Dental Materials, K.J. Anusavice, W.B. Saunders Co., 11th Ed. (required)  
Y. FINER, 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 prostheses, including conventional tooth- or implant-supported prostheses, and the procedures employed when treating patients with partially edentate jaws. The fabrication steps take place on student partners, stone models, and manikins as appropriate. Defined projects for completion allow skills development and assessment. Knowledge and comprehension are assessed with term tests and a final exam.

The teaching format includes lectures, group discussions and seminars, complemented with practical demonstrations followed by laboratory and clinical exercises. Texts: As in DEN177Y plus:

McCracken's Removable Partial Prosthodontics. Carr AB, Brown DT (eds.), 12th Ed., Elsevier Mosby, 2011 (required); Contemporary Fixed Prosthodontics. Rosenstiel SF, Land MF, Fujimoto J (eds.), 4<sup>th</sup> ed., Elsevier, 2006 (required); Removable Prosthodontic Techniques. Sowter JB (ed.) 2<sup>nd</sup> edition, U North Carolina Press, 1986 (reference).  
L. LAING, A. JOKSTAD, 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 on the management and control of inflammatory periodontal conditions of patients.

Education about comprehensive care is focused on practical sessions that include assisting fourth 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 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, oral hygiene and scaling and root planing are taught in sessions during which students both practice these skills on student partners and administer maintenance care to previously treated general clinic patients under close supervision.

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).

Completion of the course will contribute to the preparation of the student for entry into the 3<sup>rd</sup> year Comprehensive Care Program for clinical treatment of patients. *This is a credit/ non-credit based course.*

R. GHILZON, J. POSLUNS, STAFF

#### **DEN317Y1 Oral Radiology**

Lectures and laboratory exercises introduce the student to the principles of radiation physics and hygiene, radiation biology, radiographic technique and radiographic interpretation of normal anatomy and common diseases affecting the teeth and jaws. This course continues in third year. Texts: Oral Radiology: Principles and Interpretation, White & Pharoah, 6th Ed., 2009, C.V. Mosby (required)

R. BARLOW, S. PERSCHBACHER

#### **DEN356Y1 Oral Diagnosis and Oral Medicine**

A course of lectures, seminars and clinical sessions teach the student 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, with special attention to the medically compromised patient. This course starts during the second year post-examination period and continues to the end of Third Year.

Texts: Dental Management of the Medically Compromised Patient, Little, J. W. et. al, 8th Ed. C.V. Mosby Co. 2013 (required); Department of Oral Medicine, Oral Diagnosis, Cardiovascular and Emergency manuals (required)

K. BURGESS, 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 which begins in the Fall Term, Clinical Coordinators educate and assist students in the development of rational, appropriately phased treatment plans, building upon the diagnostic information gained during the initial patient visits. Consistent with current standards of optimal patient care, considerable emphasis is placed on the control and prevention of oral disease.

Discipline-specific clinical teaching takes place within the Comprehensive Care Program. Students perform clinical procedures under the close supervision and guidance provided by discipline instructors. During all clinical sessions, students apply the basic principles, knowledge and skills that they have acquired in their pre-clinical 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.

A series of group clinics and seminars in various phases of clinical dentistry is conducted by the staff throughout the clinical course. Group clinics are also conducted in the teaching hospitals of the city of Toronto where students are rotated through both dental and medical hospital departments.

During clinical sessions students are provided with the opportunity to treat selected patients utilizing the various methods of pain control and patient management. A pharmacy in the clinic reinforces teaching of Pharmacology and Therapeutics by facilitating the writing of accurate prescriptions for patients. Students consult with the clinical pharmacist in the management of various therapeutic problems which, can arise in patient treatment. They also learn to communicate with the patient's physician in order to assess medical problems and their impact on potential treatment. Students also have the opportunity of working closely with trained auxiliary personnel in a manner, which simulates the private practice environment.

During the Fall and Winter terms of Third Year the students must achieve all stated minimum numerical requirements with passing or better grade

standing and attend all assigned seminars and clinics in order to qualify for entry into the final year of the Comprehensive Care Program (450Y1/451Y1) in May of Third Year. Refer to Third Year Clinical Requirements Handout for remedial training in the Third Year clinical programs.

#### **DEN301Y1 Anaesthesia**

The objective of this course is to provide the ability to administer conscious sedation when indicated for patients in dentistry. The focus is to achieve competency in the administration of nitrous oxide:oxygen conscious 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 patients in the clinic. Students will also write anaesthesia consultations for their patients in the clinic. Texts: Sedation, A Guide to Patient Management, Malamed, 5th Ed. 2010 (required); Medical Emergencies in the Dental Office, 6th Ed., S.F.Malamed, Mosby Elsevier, 2007 (required); Dental Treatment for the Medically Compromised Patient, Little and Falace (recommended) Handbook of Nitrous Oxide and Oxygen Sedation, Clark & Brunick, Mosby, 2003 (reference)

D.A. 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. Texts: Undergraduate Endodontics Manual, Faculty of Dentistry, University of Toronto (required); Pathways of the Pulp, Cohen & Hargraves, 10th Ed., C.V. Mosby Company 2011 (reference); Seltzer and Bender's Dental Pulp. Quintessence Int, 2002. (reference); Principles and Practice of Endodontics, R. Walton, & M. Torabinejad, 5th Ed., Saunders 2009 (reference). Endodontic Therapy, F. Weine 6th Ed. Mosby, 2004. Essential Endodontology: Prevention & Treatment of Apical Periodontitis. Ostavil & Pitt Ford, 2nd Ed., Wiley-Blackwell 2007 (reference). Essentials of Traumatic Injuries to the

Teeth. Andreasen & Andreasen, 2nd Ed., Blackwell Munksgaard 2001 (reference). Textbook and Color Atlas of Traumatic Injuries to the Teeth. Andreasen & Andreasen, 2nd Ed., Wiley-Blackwell 2007 (reference).

A. PLAZAS-GARZON, 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 BEHAVIOURAL 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.

Texts: D. Locker. Introduction to behavioural science and dentistry. (recommended)

L. DEMPSTER

#### **DEN315Y1 Oral Medicine and Pathology**

The lectures cover diseases of the teeth, periodontium, tongue, oral mucosa, salivary glands, jaws, oro-facial 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 laboratory 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 seminar periods are to impart a systematic approach to evaluate oral soft and hard tissue lesions, to formulate a diagnosis and treatment plan, based on what has been learned in the lectures and laboratory sessions.

Texts: **Either** "Contemporary Oral and Maxillofacial Pathology" Sapp, J. Philip; Eversole, Lewis R., and Wysocki, George P., 2nd ed.,



Mosby, 2004 (required) OR "Oral and Maxillofacial Pathology II" Neville, Brad W.; Damm, Douglas D.; Allen, Carl M. Bouquot, Jerry E., 3rd Ed. 2009. W.B. Saunders Co. (required). G. BRADLEY, STAFF

#### **DEN317Y1 Oral Radiology**

This course continues from the second year and IDAPP as a series of lectures presented on the radiologic interpretation of disease processes, which affect the teeth and jaws. A systematic approach to radiographic interpretation is stressed as a basis for recognizing and understanding the effects of various disease processes on hard tissue structures. Selected lectures are combined with the Oral Pathology course. Advanced imaging modalities and their applications are also presented. Texts: As Second Year

R. BARLOW AND S. PERSCHBACHER

#### **DEN318Y1 Oral and Maxillofacial Surgery**

The third year course consists of a lecture program and labs. Basic didactic instruction will include orientation to the department, basic surgical principles, instrumentation and techniques of exodontia for both erupted and unerupted teeth, minor dentoalveolar surgery, root resection, pre-prosthetic surgical procedures, and the management of infections and application of various drugs.

A laboratory exercise, in flaps, extractions and suturing, employing a pig mandible will be held to supplement the didactic aspects of exodontia. During orientation, a surgical simulator will be used to simulate basic techniques which, more closely approximates the real life circumstance. Assignment to the Oral Surgery Clinic in March, May or June will begin the students clinical experience.

Texts: Principles of Oral & Maxillofacial Surgery, Dr. Petersom, J.B. Lippincott  
Basic Principles of Oral & Maxillofacial Surgery, Manual. Dr. H. Holmes (3<sup>rd</sup> Year Manual supplied H. HOLMES, STAFF

#### **DEN322Y1/ DEN365Y1 Orthodontics**

The Third Year of studies includes lectures, clinical seminars and clinical practice designed to teach the student the more advanced diagnostic procedures important in the treatment planning of orthodontic abnormalities. The final written examination in Theoretical Orthodontics is conducted at the end of this course.

Texts: As in second year; Contemporary Orthodontics, William R. Proffit, et. al. 5<sup>th</sup> Ed., Elsevier, 2012, (required)

K. SHARMA, ORTHODONTIC DISCIPLINE STAFF

#### **DEN323Y1/DEN368Y1 Paediatric Dentistry**

A series of lectures and seminars are presented

on dentistry for children that include behaviour management, infant care, diagnosis and treatment planning, management of early childhood caries, space management, paediatric dental emergencies and trauma, paediatric oral surgery and oral pathology, and applied paediatric 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 Paediatric 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 4<sup>th</sup> year, but a grade will only be given in Clinical Paedo at the end of 4<sup>th</sup> year. Texts: Paediatric Dentistry Manual, 9<sup>th</sup> ed., (required); Paediatric Dentistry: Infancy Through Adolescence, J. Pinkham et al, 3<sup>rd</sup> edition, Saunders 1999 (reference)

M. SIGAL, P. ANDREWS, B. SALTZMAN

#### **DEN324Y1/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 disciplines.

Texts: As in second year plus  
Periodontics: Medicine, Surgery, and Implants 2004, Rose, Mealey and Genco (reference)  
Clinical Periodontology and Implant Dentistry, 5<sup>th</sup> edition, 2008 Lindhe, Karring, Lang (reference)  
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.A. HAAS, H. GRAD, STAFF

#### **DEN333Y1/DEN377Y1 Prosthodontics**

This course consists of group seminars in the fall term and patient assignments in the clinic in the fall and winter terms. Prosthodontic treatment planning principles are provided in lectures and the group seminars. The didactic component focuses on planning and integrating removable and fixed prosthodontic interventions within a continuum of comprehensive patient care. 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 complete edentulous jaws. The minimum clinical core experience for the students are: (i) 1 complete (or immediate complete) removable prosthesis, (ii) 3 removable partial prostheses, (iii) 1 fixed partial prosthesis or 1 implant supported prosthesis and (iv) 1 relined or implant-retrofitted or repair of a removable prosthesis. Texts: As in DEN177Y and DEN277Y plus ITI Treatment Guide. Volumes 1-4. Buser, Belser, Wismeijer, et al (eds.), Quintessence Publ. 2007, 2008, 2009, 2010 (reference); Clinical and Laboratory Manual of Implant Overdentures. Shafie HR (ed.), Blackwell Publishing, 2007 (reference)

R. PACULANAN, A. JOKSTAD, 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 competency tests. 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.

Texts: Third Year Clinic Manual\* (required); General Restorative Dentistry Clinic Manual\* (required); Fundamentals of Operative Dentistry- A Contemporary Approach, Summitt JB, Robbins JW, and Schwartz RS. 3<sup>rd</sup> Edition. Quintessence Publishing Co., 2006. (reference); Fundamental of Fixed Prosthodontics, Shillingburg HT et al. 3<sup>rd</sup> Ed., Quintessence Publishing Co., 1997. (reference)  
Philip's Science of Dental Materials, Anusavice KJ. 10<sup>th</sup> edition. WB Saunders Co, 1996. (reference)

L. TAM, STAFF

#### **DEN356Y1 Oral Diagnosis and Oral Medicine**

The course starts in the Second Year with a series of lectures, seminars and clinical sessions 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. Texts: Dental Management of the Medically Compromised Patient, Little, J. W. et. al., 8th Ed., C.V. Mosby Co. 2013 (required); Department of Oral Medicine, Oral Diagnosis Cardiovascular, and Emergency Manuals (required).

K. BURGESS, STAFF

**DEN374Y Preventive Dentistry**

The didactic program concentrates on the practical aspects of incorporating preventive dentistry into private dental practice. Seminar sessions are devoted to patient motivation and preventive diet counselling, to a systematic approach to preventive care and to the use of auxiliaries in preventive practice. The student utilizes preventive principles and techniques for assigned clinic patients.

Texts: Primary Preventive Dentistry, Harris and Christen (reference)

Successful Preventive Dental Practices, Barkley (reference)

A Textbook of Preventive Dentistry, Caldwell and Stallard (reference)

I.S. HUSAIN, STAFF

**DEN383H1 Biological Basis of Oral Health and Disease - Practical Applications I**

This course is designed to introduce novel clinical procedures, technologies and common, current, clinically important laboratory tests to the preclinical student. Equal emphasis will be placed on the understanding of the biological basis underlying the new technologies and physiological laboratory tests. *This is a credit/non-credit based course.*

STAFF

**DEN403H1 Case-Based Learning**

A series of eight tutorials will be taken by students during the Third Year post-exam period. The problems presented may be from clinical cases or from other sources. Learning occurs in small groups with emphasis on identification of key issues, researching the medical and dental literature and critical analysis of selected information. Discussion groups of students exchange information and reach evidenced-based conclusions. This course is continued from spring term of Third year into Fourth Year.

H. GRAD, 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, resumés, 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, GUESTS

**DEN450Y1 Comprehensive Care Program**

This multidisciplinary clinical program begins in the Fall Term of third year and continues throughout fourth year in order 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. Building upon the teaching provided by the clinical disciplines in the pre-clinical programs, students participate in the evaluation, planning and management of the comprehensive treatment needs for their assigned adult patients.

Comprehensive Care Program Coordinators 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 third year CCP on 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 disciplines. Texts: Manual of Comprehensive Care Program (required); Treatment Planning in Dentistry. Edit. Stefanac & Nesbitt. Mosby Inc. 2007 (reference)

L. TAM, D. CORNELL, R. RAYMAN, STAFF

**DEN459Y1 Oral Radiology**

Clinical assignments include pre-clinical laboratories and patient assignments. The objectives are that students apply sound decision making skills in the prescription of radiographs, become proficient in intraoral radiographic techniques. Students will also become familiarized with panoramic radiography. Case reporting under guidance allows development of skills in oral radiologic interpretation with integration of the didactic material introduced in DEN317Y1. This clinical experience continues in fourth year. Text: Oral Radiology: Principles and Interpretation. White & Pharoah, 6th Ed., 2009, CV Mosby (required).

R. BARLOW, S. PERSCHBACHER, 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 disciplines 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.

### Electives

Electives are offered to senior students in various disciplines each year. The subjects presented may change from year to year. Currently there are electives in Restorative Dentistry, Anaesthesia, Preventive Dentistry and Radiology. Time is set aside from the curriculum to afford students a broader in-depth discussion of a subject(s) in which they may have a particular interest. These programs are offered to the entire class on a first come basis and some have limited enrolment. In Paediatric Dentistry, the elective is a "selective" since interested students are selected to attend the Moose Factory Dental Project that deals with the delivery of dental treatment to Native Peoples in the James Bay area from a hospital base.

### 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 practise 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. Text: Medical Emergencies in the Dental Office, 6<sup>th</sup> ed., S.F.Malamed, Mosby Elsevier, 2007 (recommended).

D.A. HAAS, H. KESTENBERG, A. MONCARZ, STAFF

### DEN403H1 Case-Based Learning

The tutorials started in Third Year continue throughout Fourth Year with one three-hour tutorial each week. Problems of increasing complexity are introduced as the course progresses.

Learning occurs in small groups with emphasis on identification of key issues, researching the medical and dental literature and critical analysis of selected information. Discussion groups of students exchange information and reach evidenced-based conclusions.

H. GRAD, 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, resumés, 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, GUESTS

### DEN450Y1/DEN451Y1 Comprehensive Care Program

This multidisciplinary clinical program begins in 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 a) the completion of treatment for all assigned patients and b) adequate preparation of students for general practice.

Students are assigned to Clinical Comprehensive Care Groups 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 group 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 examination. Conducted by teams of academic staff, the oral examination evaluates the student's knowledge, clinical judgment, reasoning processes and ability to plan appropriate comprehensive patient dental care. Texts: Manual of Comprehensive Care Program (required); Treatment Planning in Dentistry. Edit. Stefanac & Nesbit. Mosby Inc. 2007 (reference) R. RAYMAN, 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.

Texts: Manual of Endodontics – Faculty of Dentistry, University of Toronto (required); Pathways of the Pulp, Cohen & Hargreaves, 9th Ed, C.V. Mosby Company 2005 (reference); Endodontology, Seltzer, 2nd Ed., Lea & Febiger (reference); Essentials of Traumatic Injuries to the Teeth. Andreasen & Andreasen, 2<sup>nd</sup> ed., Blackwell Munksgaard 2001 (reference) Seltzer and Bender's Dental Pulp. Hargreaves, Kenneth M./Goodis, Harold E. Quintessence Int, 2002 (reference); Principles and Practice of Endodontics. R. Walton M. Torabinejad, 4th Ed, W.B. Saunders Company 2008 (reference); Textbook and Color Atlas of Traumatic Injuries to the Teeth. Andreasen & Andreasen, 2<sup>nd</sup> ed., Wiley-Blackwell 2007 (reference).

A. PLAZAS-GARZON, STAFF

#### **DEN456Y1 Oral Diagnosis and Oral Medicine**

Students continue to attend the Oral Diagnosis and Emergency Clinics for further experience in the management, evaluation and treatment planning of patients, with continued emphasis on assessment and treatment planning of patients with special care or medical problems. Fourth Year students attend the Emergency Clinic

throughout the year. Texts: As Third Year K. BURGESS, STAFF

#### **DEN459Y1 Oral Radiology**

The 4<sup>th</sup> year clinical component carries forward from the 3<sup>rd</sup> year course. Skills in radiographic techniques and radiologic interpretation continue to be developed through patient assignments and case reporting. HARP guidelines and digital radiography are presented as seminar topics.

Texts: As Third Year

R. BARLOW, S. PERSCHBACHER, STAFF

#### **DEN462Y1 Oral and Maxillofacial Surgery**

The Fourth Year program consists of a series of lectures in the advanced aspects of Oral and Maxillofacial Surgery such as trauma, surgical orthodontic treatment and Oral and Maxillofacial Surgery reconstruction etc. The aim of this program is to provide the students with a basic understanding of and the diagnostic capability to approach these more advanced aspects, of surgery which customarily are dealt with by Oral and Maxillofacial Surgeons. The clinical part of this program is the continuation of assignments to the department which, covered in 3<sup>rd</sup> Year, as well as exposure to major oral surgery that may occur during the student's hospital assignments. An essay on an assignment topic, due in December is also required. Texts: As third Year

H.I. HOLMES, STAFF

#### **DEN465Y1 Orthodontics**

The work includes lectures, clinical seminars and clinical instruction for the diagnosis, treatment planning and clinical interception of malocclusions. The final clinical examinations are conducted at the end of this course. Texts: As Second Year

E. ARAT, STAFF

#### **DEN468Y1 Paediatric Dentistry**

Additional emphasis in clinical Paediatric 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 Paediatric Dentistry Surgicentre. The dental care of persons with special needs is provided through affiliated hospitals. Various members of the department give seminars in advanced Paediatric Dentistry throughout the year. Elective programs in conjunction with the Hospital for Sick Children, Mount Sinai Hospital, Toronto Rehabilitation

Institute and Weeneebayko General Hospital are available. Director, Mount Sinai Dental Program for Persons with Disabilities is Professor M. Sigal.  
Texts: As Third Year  
M. SIGAL, STAFF

#### **DEN471Y1 Periodontics**

The major objective of fourth year Periodontics is to graduate general practitioners that combine the knowledge, judgement, skill and motivation to serve individual patients and the community's needs in the prevention, recognition, and treatment 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 system. Students are challenged to learn how Periodontics influences the management of both uncomplicated and complex cases. Discrimination of cases treatable in general practice and those, which should be treated through co-operation between generalist and specialist, is stressed. Each student also has assignments to assist in the graduate clinic.  
Texts: As in second and third year.

R. GHILZON, STAFF

#### **DEN474Y1 Preventive Dentistry**

Cases are presented where individuals at high risk of coronal and root surface caries 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.

S. HUSAIN, 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 major theme of the didactic component is an emphasis that all prosthodontic interventions include a biological cost – although also provide benefits. Moreover, that (1) the costs can be small and the benefits large often with a minimalist approach – and vice versa, and (2) that exact information relating to the patient's oral and medical condition and history – evidence based when possible – is required to allow the patient to make an informed decision consistent with his or her treatment needs and preferences.  
Texts: As in DEN277Y and DEN333Y/ DEN377Y plus: Orofacial Pain – From Basic Science to Clinical Management. Sessle BJ, Lavigne G J, Lund JP, Dubner R (eds.), 2<sup>nd</sup> ed. Quintessence, 2008. (reference)

Osseointegration and Dental Implants. Jokstad A (ed.), Blackwell Publishing, 2009 (reference)  
T. DAO, A. JOKSTAD, 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 disciplines. 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. Texts: As third year, plus Restorative Clinic Manual (required) Fundamentals of Fixed Prosthodontics, Shillingberg et al., 3rd Edition, Quintessence Pub. Co. 1997 (reference)  
Esthetics in Dentistry Vol 1 2<sup>nd</sup> edition. R.E. Goldstein. BCDecker 1998 (Recommended). Esthetic Dentistry and Ceramic Restorations. B. Touati, P. Miara & D. Nathanson. Martin Dunitz, 1999. (Recommended)  
O. EL-MOWAFY, STAFF

#### **DEN483H1 Biological Basis of Oral Health and Disease - Practical Applications II**

This course is designed to introduce novel clinical procedures, technologies and common, current, clinically important laboratory tests to the preclinical student. Equal emphasis will be placed on the understanding of the biological basis underlying the new technologies and physiological laboratory tests. This is a credit, non-credit based course.

STAFF

# 3 International Dentist Advanced Placement Program

Note: The regulations in Section 8 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 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.

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

[www.utoronto.ca/dentistry](http://www.utoronto.ca/dentistry).

### Academic Requirements

In order to be eligible to apply to the International Dentist Advanced Placement Program, applicants must be graduates of a minimum four-year University dental program not recognized by CDAC. A minimum current grade point average of 3.0 (4.0 scale) is required. A notarized copy of dental school marks and a notarized copy of the dental diploma must be submitted with the application. Documents that are not in English must be accompanied by a notarized English translation.

### Citizenship and Residence

Applicants must be Canadian Citizens or Permanent Residents of Canada on or before the deadline date for applications. A photocopy of proof of Canadian Citizenship or Permanent Residence Card must be submitted with the application.

### English Facility Requirements

All applicants must be proficient in both written and spoken English. Applicants whose first language (i.e. the language learned at home as a child) is not English and who have completed less than four years of full-time academic study in an English language school system located in a country where English is the primary language, are required to achieve an appropriate standard in a recognized test of English facility. 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.

However, we will exempt from English facility testing any applicant who has successfully completed, with grades of "C" or higher, at least four full degree courses, including at least one full course in English, Social Sciences or Humanities taught in English, in a recognized English-medium university located in a country where English is the primary language. We will also exempt from English facility testing any applicant who is a bilingual francophone and who has satisfactorily completed at least four years of full-time academic study in the Canadian school system.

*Acceptable proof of English facility must be submitted by the application deadline.* If acceptable proof of English facility is not received by the application deadline, the application will be cancelled. Tests taken more than two years prior to the application deadline will not be considered. Official test scores must be sent by the testing agency directly to the Admissions Office, Faculty of Dentistry, University of Toronto. The following tests are recognized:

**Test of English as a Foreign Language Paper-based Test (TOEFL PBT) and the Test of Written English (TWE), and Internet Based TOEFL (IBT).**

Those who present the paper-based TOEFL must ensure that the Test of Written English (TWE) is also available on their test date. The TOEFL CBT includes an Essay Rating in every test.

**Minimum Requirement**

TOEFL PBT - total score 600+5.0 on TWE  
TOEFL IBT - total score 100+22 on Writing  
Note: The TOEFL Institution Code is 0982-00.

TOEFL/TWE Bulletins may be obtained from American embassies and consulates, offices of the United States Information Service (USIS), or you may contact TOEFL Services, Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151 USA. Telephone: (609) 771-7100; Fax: (609) 290-8972; Email: [toefl@ets.org](mailto:toefl@ets.org); Web site: [www.ets.org/toefl](http://www.ets.org/toefl). You may also pick up a TOEFL CBT Bulletin at Enrolment Services, University of Toronto, 172 St. George Street, Toronto, ON M5R 0A3. Telephone: (416) 978-2190; Web site: [www.adm.utoronto.ca](http://www.adm.utoronto.ca).

**International English Language Testing System (IELTS).**

The minimum requirement is an overall band of 6.5, with no band below 6.0. For information about this test, world-wide test centres and registration procedures, you may contact The IELTS Office at [www.ielts.org](http://www.ielts.org). You may also contact the Ontario Test Centre at: IELTS Test Center, Conestoga College, 299 Doon Valley

Drive, Kitchener, ON N2G 4M4. Telephone: (519) 748-3516; Fax: (519) 748-3505; E-mail: [ielts@conestogac.on.ca](mailto:ielts@conestogac.on.ca); Website: [www.ieltscanada.ca](http://www.ieltscanada.ca). A Toronto Test Centre has opened at: GVT Exams Inc., IELTS Administrator, 180 Bloor Street West, Suite 202, Toronto, ON M5S 2V6. Telephone: (416) 209-6685; Fax: (416) 968-6667; Email: [info@ielts-toronto.com](mailto:info@ielts-toronto.com) Website: <http://www.ielts-torontocom>

**Michigan English Language Assessment Battery (MELAB).**

The minimum requirement is an overall score of 85, with no part below 80. Information Bulletins and Registration Forms may be obtained from CaMLA, Argus, 1 Building, 535 West William Street, Suite 310, Ann Arbor, MI 48103-4978, USA. Telephone: (734) 615-9629; Fax: (734) 763-0369; Email: [info@cambridgemichigan.org](mailto:info@cambridgemichigan.org); Website: [www.cambridgemichigan.org/melab](http://www.cambridgemichigan.org/melab) or the Toronto MELAB Centre website: [www.melab.ca](http://www.melab.ca).

Applicants in the Toronto area may register in-person at the Toronto MELAB Centre, 45 Willcocks Street, Toronto, ON M5S 1C7. Telephone: (416) 946-3942; Fax: (416) 946-0337; E-mail: [info@melab.ca](mailto:info@melab.ca). You may also pick up a MELAB Bulletin at Enrolment Services.

**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 Reading and Listening. Currently available in Toronto only. COPE Information Bulletins with registration forms and sample questions may be picked up at Enrolment Services, or you may contact COPE Testing Ltd., 7B Pleasant Blvd., Box 957, Toronto, ON M4T 1K2 (note: this is a mailing address only). Telephone: (416) 962-2673; Email: [info@copetest.com](mailto:info@copetest.com). Complete information, including a downloadable registration form, is available at web site: [www.copetest.com](http://www.copetest.com).

**Assessment of Fundamental Knowledge Examination**

Applicants are required to take the Assessment of Fundamental Knowledge Examination administered by the National Dental Examining Board of Canada (NDEB) before the application deadline, and to arrange for their results to be forwarded to the Admissions Office. The last available test date for admission in January 2014 is February 2012 and February 2013. Tests taken more than two years prior to the application deadline will not be considered. An NDEB Fundamental Knowledge Examination information and registration package may be obtained from The National Dental Examining Board of Canada, 80 Elgin Street, 2<sup>nd</sup> Floor, Ottawa, ON, Canada



K1P 6R2. Telephone: (613) 236-5912; Fax: (613) 236-8386; Email: [director@ndeb.ca](mailto:director@ndeb.ca); Web site: [www.ndeb.ca/nonaccredited/fundamental-knowledge](http://www.ndeb.ca/nonaccredited/fundamental-knowledge).

#### **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.

#### **Procedures for Application**

Application forms and information brochures for the 2014 academic session may be downloaded from the Faculty web site at: [www.utoronto.ca/dentistry](http://www.utoronto.ca/dentistry).

It is the responsibility of the applicant to complete the application form accurately and to provide all information punctually. 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. Documents will not be returned to applicants. Therefore, please do not send originals.

July 1, 2013: APPLICATION DEADLINE.

Application forms and supporting documents, accompanied by the non-refundable application service fee of \$250 CDN, must be received in the Admissions Office by July 1, 2013. Applications should be typed or printed clearly in ink. If the application is not completed legibly, has missing

information or does not include the application service fee, it will be returned for completion. The normal deadline will still apply. Applications must be signed and dated.

#### **Selection of Applicants**

Applications will be reviewed after the application deadline. Applicants who are considered to have potential based on their application documents will be invited for an interview in October. Final selection will be made from this group of applicants. *The decision of the Faculty of Dentistry concerning admission into the International Dentist Advanced Placement Program is final. No appeal mechanism exists.*

#### **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 registers.

## **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, 8 and 12 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's 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 laboratories), and clinical/preclinical. 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 disciplines concerned.

### **Exemptions**

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

### **Supplemental Examinations**

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 supplementals in the International Dentist Advanced Placement program.

### **Consequences of Failure to Obtain Standing**

Students who fail to obtain 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 on two occasions to receive the right to advance to the D.D.S. program shall be refused further registration in the Faculty.

### **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 2012-2013

Course No.	Course Title	Lecture Hours	Seminar Hours	Laboratory Hours	Clinic Hours	Total Hours	Course Weights
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	20	0	0	0	20	0.25
DPP135H1	Preventive Dentistry	20	0	0	0	20	0.25
DPP138Y1	Prosthodontics	16	0	0	71	87	0.50
DPP141H1	Radiology	14	0	0	4	18	0.00
DPP144Y1	Restorative Dentistry (pre-clinical)	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
DPP208H1	Endodontics	30.5	0	54	0	84.5	0.50
DPP219H1	Medicine	21	0	0	0	21	0.25
DPP222H1	Orthodontics	16	28	0	28	72	0.50
DPP223H1	Paediatric Dentistry	17.5	0	19.5	0	37	0.25
DPP356Y1	Oral Diagnosis and Oral Medicine	22.5	12	0	18	52.5	0.00
<b>Total Hours</b>		<b>346</b>	<b>40</b>	<b>78.5</b>	<b>279.5</b>	<b>744</b>	<b>5.00</b>

## **COURSE DESCRIPTIONS**

### **International Dentist Advanced Placement Program**

The International Dentist Advanced Placement Program is an intense six months pre-clinical 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 materials science knowledge required to understand how chemistry and structure of materials affect physical and mechanical properties. They also include a comprehensive review of dental materials with emphasis on the relationships between structure, properties, performance and biocompatibility. Supplementary reading is required from the assigned textbook. Text: Phillips' Science of Dental Materials, Anusavice K.J.: Eleventh edition, Saunders.  
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 including a brief introduction to professional ethics. 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. Texts: Clinical Epidemiology: the essentials, 4th Edition. Fletcher & Fletcher. Williams & Wilkins, Baltimore (required) Dentistry, Dental Practice and the Community; Burt and Eklund (6th edition) W.B. Saunders 2005 (recommended).  
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 15 two hour 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. Texts: There are no required or recommended texts. Students will be given handout material and reading assignments throughout the course.  
G. NOGUEIRA, STAFF

#### **DPP128H - 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. Texts: Clinical Periodontology, Carranza's, 10<sup>th</sup> Edition (required) Fundamentals of dental hygiene instrumentation, Nield and Houseman(recommended)  
R. GHILZON, S. WEINBERG, STAFF

#### **DPP132H1 Pharmacology**

This course will provide a review of pharmacology prior to the course in third year DDS. Topics include an overview of basic principles, drug regulations, autonomic, cardiovascular, immunopharmacology, general anaesthetics and central nervous system drugs. Texts: Rang and Dale's Pharmacology. Range, Dale, Ritter, Flower, Henderson, 7th Ed., 2012 (reference); Principles of Medical Pharmacology, H. Kalent, D. Grant, J. Mitchell, Eds. Oxford, NY Seventh ed. (reference)  
J. LANÇA, STAFF

**DPP135H1 Preventive Dentistry**

The goal of the preventive program for students in the IDAPP is to build on the review of the basic biological mechanisms introduced in the Biological Basis for Oral Health and Disease (BBOHD) course especially relating to the area of caries prevention. Approximately 10 two-hour lectures are scheduled covering a range of topics in Preventive Dentistry. The primary goal of the course is to prepare the students for entry directly into the third year DDS program, where more independent learning will provide the clinical skills for competency in the management of dental caries.

Texts: Dental Caries. The Disease and its Clinical Management. O.Fejerskov, E. Kidd (recommended)

Understanding Dental Caries. Volume 1. Gordon Nikiforuk (reference)

Primary Preventive Dentistry, Harris and Christen (reference)

Successful Preventive Dental Practices, Barkley (reference)

S. HUSAIN, STAFF

**DPP138Y1 Prosthodontics**

This course aims to introduce to international dentists the status of prosthodontics in Canada in terms of epidemiology, aetiology and prognosis. Moreover, the dentists are exposed to the prosthodontic teaching principles of the University of Toronto in terms of management of patients who are missing teeth and associated tissues. Lectures, videos, and seminars define the sequelae of partial and complete edentulism, methods of treatment, and risks and benefits.

The course blends theory with simulations on patient models and typodonts. At the completion of this course, candidates will be aware of the optimal approach to treatment planning, diagnostic procedures and technical solutions for patients who require tooth replacement with fixed and removable partial and complete prostheses. Successful completion leads to instructor supervised comprehensive patient care. Further lectures and seminars cover other prosthodontic topics such as geriatrics and dental implants. Texts:

Teaching Material located on Intranet:

<https://sp.dentistry.utoronto.ca/prostho/Clinical%20Procedures; Treatment of Edentulous Patients>.

McCord, Smith, Grey (eds.), Churchill Livingstone, 2004 (required)

McCracken's Removable Partial Prosthodontics. Carr, Brown (eds.) 12th Ed., Elsevier Mosby, 2011 (required)

Contemporary Fixed Prosthodontics.

Rosenstiel, Land, Fujimoto (eds.) 4th Ed.,

Elsevier, 2006 (required)

R. PACULANAN, M. LIN, A. JOKSTAD, STAFF

**DPP141H1 Radiology**

Lectures and laboratory exercises introduce the student to the principles of radiation physics and hygiene, radiation biology, radiographic technique, radiographic interpretation of normal anatomy and common diseases affecting teeth and jaws and the prescription of radiographs.

Texts: Oral Radiology: Principles and Interpretation, White & Pharoah, 6th Ed., C.V. Mosby (required)

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 extra-coral). 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.

In addition to a revised manual provided in electronic form the following texts are required.

Texts: Fundamentals of Operating Dentistry -

A Contemporary Approach, Schwartz,

Summit and Robbins, 3<sup>rd</sup> edition,

Quintessence Books, 2006 (required)

Restorative Dental Materials, 11th edition,

Craig 2002, C.V. Mosby (required)

Fundamentals of Fixed Prosthodontics,

Shillenberg and others, 1997, 3rd edition,

Quintessence Publishing Co.  
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. Text: Handbook of Local Anesthesia, S.F. Malamed, Mosby (required) 6<sup>th</sup> ed. 2012.

P. NKANSAH, STAFF

#### **DPP208H1 Endodontics**

This course offers the student didactic, pre-clinical and clinical experiences that are directed towards fostering understanding about the nature, the diagnosis, and the treatment of pulpal and periapical disease. The goal of this course is to acquire knowledge and pre-clinical skills equal to those of second year DDS students.

The pre-clinical component is focused on the treatment of anterior and premolar teeth. Both components are directed towards training the student to perform basic clinical endodontic procedures with confidence prior to entering the clinics in third year.

Texts: Manual of Endodontics - Faculty of Dentistry, University of Toronto (required) Pathways of the Pulp, Cohen & Hargraves, 9th Edition, C. V. Mosby Company 2005 (reference); Endodontology, S. Seltzer, 2nd ed., Lea & Febiger (reference).

Seltzer and Bender's Dental Pulp. Quintessence Int, 2002. Problem Solving in Endodontics, J. L. Gutmann, T. C. Dumsha, P. E. Lovdahl, Year Book Medical Pub. 2005 (reference). Principles and Practice of Endodontics, R. Walton, M. Torabinejad, W. B. Saunders Company 2001 (reference); Clinical Endodontics, L. Tronstad,

Thieme 2002. Endodontic Therapy, F. Weine Mosby, 2003.

A. PLAZAS-GARZON, STAFF

#### **DPP219H1 Medicine**

The course is designed to provide basic knowledge of common chronic adult medical illnesses. The purpose is to both understand patients' chronic conditions as well as to have an approach to treating patients with chronic medical conditions. The relevance of the illnesses on the practice of dentistry is emphasized throughout the course. The course builds upon content learned in General Pathology and Pharmacology but provides a more clinical perspective.

Evaluation: written midterm test and final exam. Text: Davidson's Principles and Practice of Medicine, 21<sup>th</sup> Ed. (required)

R. WU, STAFF

#### **DPP222H1 Orthodontics**

This course consists of a series of lectures, aiming at familiarizing the students with the material taught in the 2<sup>nd</sup> 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. Text: Contemporary Orthodontics, William R. Proffit, et. al., 4<sup>th</sup> Ed., Elsevier, 2007, (required)

S. SURI, STAFF

#### **DPP223H1 Paediatric 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. Texts: Pediatric Dentistry Manual 8<sup>th</sup> Edition

M. SIGAL, J. WILES, J. RUKAVINA, R., REVUELTA, STAFF

**DEN356Y1 Oral Diagnosis and Oral**

**Medicine** A course of lectures, seminars and clinical sessions teach the student 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, with special attention to the medically compromised patient. This course starts during the second year post-examination period and continues to the end of Third Year. Texts: Dental Management of the Medically Compromised Patient, Little, J. W. et al 7th Ed., C. V. Mosby Co. 2008 (required) Department of Oral Medicine, Oral Diagnosis, Cardiovascular and Emergency manuals (required)

K. BURGESS, STAFF

# 4 Graduate Programs

Note: The general regulations in section 8 of this Calendar apply to all graduate students registered in the Faculty of Dentistry.

## Staff 2012-2013

Chair, Graduate Department of Dentistry and Associate Dean of Graduate/ Postgraduate Studies – M.F. Manolson

### Graduate Faculty

Agur, A.	Jokstad, A.
Aubin, J.E.	Kenny, D.J.
Bressman, T.	Kirshen, A.
Casas, M.J.	Lam, E.W.N.
Casper, R.F.	Lawrence, H.P.
Clokie, C.M.L.	Lévesque, C.
Cvitkovitch, D.G.	Limeback, H.
Davies, J.E.	Manolson, J.F.
Deporter, D.A.	McCulloch, C.A.G.
Dostrovsky, J.	Mock, D.
El-Mowafy, O.	Peel, S.
Finer, Y.	Santerre, J.P.
Foster, D.	Seltzer, Z.
Friedman, S.	Sessle, B.J.
Glogauer, M.	Seth, A.
Gong, S.-G.	Sherman, P.
Gynpas, M.	Simmons, C.
Haas, D.A.	Sone, E.
Hinz, B.	Tenenbaum, H.C.

### Associate Members

Andrews, P.	Laporte, A.
Arat, E.	Leong, I.
Avivi-Aber, L.	Main, P.
Azarapazhooh, A.	McComb, D.
Baker, G.I.	McComb, R.J.
Banss, B.	Metazas, A.
Barrett, E.	Moriarty, T.
Barzilay, I.	Nainar, H.
Basrani, B.	Nogueira, G.
Bradley, G.	Perschbacher, S.
Carmichael, R.	Pharoah, M.J.
Dao, T.T.T.	Prakki, A.
Daskalogiannakis, J.	Quiñonez
Dempster, L.	Revuelta, R.
Diwan, R.	Senadheera, D.
El-Badrawy, W.	Sigal, M.J.
Fenton, A.	Suri, S.
Goldberg, M.	Sutherland, S.
Holmes, H.	Tam, L.E.
Iakounine, A.	Tompson, B.D.
Judd, P.L.	Voronov, I.
Lai, J.	Wood, R.E.
Laing, L.	

### Emeriti Members

Anderson, J.	Pillar, R.M.
Ellen, R.P.	Ross, R.B.
Leake, J.	Titley, K.
Liebgott, B.	Watson, P.A.
Mayhall, J.T.	Woodside, D.G.
	Zarb, G.A.



## 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 specialty disciplines; 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 receive minimum support from scholarship and grant sources equivalent to \$15,000 plus doctoral stream tuition plus fees for a maximum of 5 years support for Ph.D. students, and normally for 1 year of support for M.Sc. students who do not transfer to Ph.D. programs.

#### 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, 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, 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.

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 discipline. 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 discipline. 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 discipline 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/Postgraduate

Studies, 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, 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 defence 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; 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 specialty Discipline Head. 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); and Master's Seminars in Oral Health Sciences (DEN1001Y) along with three half-courses in clinical, epidemiological, or basic science research methodology appropriate for clinical or public health practice. In addition, preparation; completion; and oral defence of a one-half course weighted research practicum. Upon completion of all program requirements students are eligible for the graduate degree. Graduates 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.

**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 defence 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) 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 disciplines 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 Radiology
- Orthodontics
- Oral & Maxillofacial Surgery & Anaesthesia
- Paediatric 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 & Anaesthesia (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 "Licence for Dental Practice").

Students (with the exception of Dental Hygienists) receiving additional clinical instruction for Specialty, Fellowship or Board Certification eligibility 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.

#### 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 mid-B standing in the final year, or possess equivalent qualifications.

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:

July 1 (year preceding admission)

- Endodontics
- Periodontology

September 1 (year preceding admission)

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

March 1, 2013 - Second Application Deadlines may be offered by the following specialty program:

- Dental Public Health
- Dental Anaesthesia
- Oral Pathology & Oral Medicine
- Oral Radiology
- Paediatric Dentistry
- Prosthodontics

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

Enrolment in these programs is restricted and is as follows:

- Dental Anaesthesia - 2
- Dental Public Health - 5
- Endodontics - 3
- Oral Pathology/Oral Medicine/Oral Pathology & Oral Medicine -1
- Oral Radiology - 2
- Orthodontics - 4
- Oral & Maxillofacial Surgery & Anaesthesia - 3\*
- Paediatric 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 non-refundable deposit, which will be credited against their fees upon registration.

### Facility in English

Facility in the use of the English language is essential for graduate studies at the University of Toronto. This requirement is a condition of admission and must be met before application. When it can be shown that the language of instruction and examination in the undergraduate degree was uniformly English, entrance will be permitted without an English language test. Acceptable tests are those administered by

(a) the English Language Institute, University of Michigan  
[www.cambridgemicigan.org/melab](http://www.cambridgemicigan.org/melab) - minimum acceptable score is 85.

(b) TOEFL Education Testing Service  
[www.toefl.org](http://www.toefl.org) must include the Test of Written English (TWE)  
Minimum Requirement

TOEFL PBT - total score 580+5.0 on TWE  
TOEFL IBT – total score 93/120+22 for both writing and speaking

Note: The TOEFL Institution Code is 0982-00.

(c) The International English Language Testing System (IELTS) [www.ielts.org](http://www.ielts.org) – minimum score of 7.0.

(d) The COPE, “Certificate of Proficiency in English” [www.copetest.com](http://www.copetest.com) – the minimum requirement is an overall score of 86 with 32 in the writing.

(e) English as Second Language for Advanced Study, Sch. of Continuing Studies, U of T [www.learn.utoronto.ca](http://www.learn.utoronto.ca) - required score: B.

### 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 (Licence)

Candidates enrolled in clinical courses must hold a General Certificate (Licence) 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/Postgraduate Studies.

### Attendance

Students may not engage in the practice of dentistry without the written consent of their department head. 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 course director. Employment must be limited to an average of 10 hours per week in any term.

### 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 Grade	Numerical Scale Marks	Grade Definition
A+	90 - 100%	Excellent
A	85 - 89%	Excellent
A-	80 - 84%	Excellent
B+	77 - 79%	Good
B	73 - 76%	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 OFFERED BY THE FACULTY TO MEET DEGREE REQUIREMENTS

#### DEN1001Y/DEN1100Y Seminars in Oral Health Sciences (CR/NCR)

A program involving seminars given by students presenting their own research and presenting a poster of their work at the Faculty of Dentistry Research Day. Required as part of the program for M.Sc. and Ph.D. students. The course is designed to enhance presentation skills, critical analysis of data and direction of project, ability to field questions from a large audience, ability to chair and participate in a conference session. Attendance at seminars is compulsory during graduate degree residence years and is encouraged thereafter until completion of the program. In addition, a series of research ethics seminars is given every year. Students are required to attend the research ethics seminar series and complete any assignment as set by the director. M.Sc. graduate students will normally present one 20 minute seminar in DEN1001Y during their first year of research; Ph.D. graduate students in DEN1100Y will present one 20 minute seminar in their first year of research, and one 40 minute seminar in their second or third year. Graduate students will also be required to chair at least one session during the term and they must complete and submit 5 critiques per year of student presentations. Attendance by all members of the presenting student's supervisory committee is mandatory. M.Sc. graduate students are also expected to present one poster at the Faculty of Dentistry Research Day. Whereas Ph.D. graduate students are required to present two posters – one in their first year and the second poster in their second or third year. Research Day posters are evaluated by all Faculty members in attendance. A grade of credit is assigned on satisfactory completion.

Master's Seminars in Oral Health Sciences (DEN1001Y) – for M.Sc. students  
Doctoral Seminars in Oral Health Sciences (DEN1100Y) – for Ph.D. students.

M. MANOLSON

#### 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.

I. LEONG, STAFF

#### **DEN1003H Preventive Dentistry**

This course will use the seminar format to provide a detailed discussion of the factors involved in the etiology and prevention of dental caries and related oral diseases. (*Not offered in 2012-2013*).

G. NOGUEIRA, STAFF

#### **DEN1007F Oral Radiology**

This lecture and seminar course will review the application of the various imaging modalities, including advanced modalities, in oral and maxillofacial radiology, radiobiology and radiation protection, and normal radiographic appearances. Emphasis will be placed on 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

#### **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.

R.J. MCCOMB, 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 seminars and clinical-pathological conferences and

covers all forms of disease of the mouth. A case-based approach is used for teaching and learning. 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 microscopic sections 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.

Emphasis is placed on synthesizing clinical, radiographic and histological data for a comprehensive evaluation of the problem being discussed over the length of the graduate education.

A pre-requisite to this course is successful completion of DEN1002S Oral Pathology.

G. BRADLEY, STAFF

#### **DEN1014H Clinical Epidemiology and Evidence-Based Care**

Following general introductory lectures on Clinical Epidemiology, AKA, Evidence-Based Health, Medicine or Practice, topics within the fields are to be presented by the course participants on a rotational basis. The presentations by the course participants will center on identified key literature located on an intranet website, although presentation and appraisal of alternative literature is also welcomed. It is expected that the key literature has been read by all course participants before each session. The sessions will revolve around: Searching for the Evidence; Bias & Methodological Design & Measurements; Diagnosis; Prognosis; Therapy; Harm and Causality; Systematic Review and Clinical Guidelines. Recommended textbooks are: Evidence-Based Medicine. Straus SE, Richardson WS, Glasziou P, Haynes RB (eds). 3rd ed. Elsevier, 2005. Clinical Epidemiology. Haynes RB, Sackett DL, Guyatt GH, Tugwell P. (eds). 3rd ed. Lippincott Williams & Wilkins, 2006. Evidence-Based Dentistry. An Introduction. Hackshaw A, Paul E, Davenport E (eds.) Blackwell Munksgaard, 2006.

A. JOKSTAD, STAFF

**DEN1015H Introduction to Biostatistics**

The Introduction to Biostatistics course is designed to provide graduate dental students from different disciplines 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

**DEN1016S Occlusion: Function and Dysfunction**

This seminar course is based on the concept that an understanding of human dental occlusion involves an appreciation of a complex system characterized by an exploration of basic physiology and a wide range of clinical expertise. Thus, the course builds on course DEN1060F (Oral Physiology: Sensory and Neuromuscular Function). The course contents are targeted principally for postgraduate candidates in clinical dental specialties. The key literature on current research and clinical opinions on the functional and dysfunctional aspects of occlusion is reviewed. This is supplemented with formal and informal topical lectures, while the participants present the literature in the last two seminars. A number of cognitive, affective and psychomotor learning objectives are specified for each lecture topic. Passing the course is based on attendance, participation & demonstration of critical appraisal skills in a written essay at the end of the course. (*Offered in alternate years – available 2012-2013*).

ENDODONTICS STAFF

**DEN1017S Temporomandibular Disorders**

The developmental and functional characteristics of the temporomandibular joint offer the clinical dental specialist many

challenges. Its functional integrity is vulnerable to musculoskeletal disorders as well as occlusion-related disorders, which demand an in-depth integration of basic and clinical science skills both at the diagnostic and at the therapeutic level. This course reviews many facets of TMJ function and dysfunction. It is presented in seminar form with emphasis on literature reviews, case history presentations and participation by various dental and medical specialists. (*Offered in alternate years – not available 2012-2013*).

A. JOKSTAD, STAFF

**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 the scientific disciplines of microbiology, molecular biology, and functional genomics/proteomics and applies that knowledge to three main themes: 1) The power of microbial communities; 2) Medical biofilm microbiology; 3) Biofilm biotechnology. 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 Function**

This is a seminar course held for graduate students in the first term (2 hours per week) and deals particularly with sensory and motor functions of the orofacial region. The following topics are covered: a review of neuro-anatomy and neuro-physiology relevant to the orofacial region; sensory physiology, psycho-physics and behavioural studies relating to the sensations of touch, temperature and pain in the mouth and face; sensory and motor aspects of the physiology of the periodontium, the tooth, the periosteum, and the temporomandibular joint; the special sense of taste; muscle physiology and its relationship to reflex and voluntary orofacial motor activity; clinical correlates in each of the above topics.

B. J. SESSLE

**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. Materials: Processing and Technologies, reviewing polymeric, metallic and tissue-derived biomaterials; 2. 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. Clinical Applications and Associated Biomaterial issues (including material testing, failures and drug delivery) in all the dental specialty disciplines. 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 – available 2012-2013.*)

J.P. SANTERRE, STAFF

**DEN1080Y Biology of Connective Tissues**

A multidisciplinary approach is used to discuss the structure and function of connective tissue matrix in health and disease. The differentiation and regulation of cells in connective tissues is covered in general, with some emphasis given to periodontal tissues and bone. Most of the material is presented in seminars, in discussions of relevant publications and may include 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 2012-2013*)

C.A.G. MCCULLOCH, H.C. TENENBAUM

**DEN1081H Bone Interfacing Implants**

This course discusses the concept of the bone/implant interface by combining the multidisciplinary approach necessary to understand both the material and biological aspects of the interface. All materials currently used in bone implants are treated from a surface science perspective together with the activities of both major types of bone cells; osteoblasts and osteoclasts. The cell biological aspects of the interface are covered within the context of explaining the tissue arrangements found at bone implant surfaces. (*Offered in alternate years – not available 2012-2013.*)

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 – available in 2012-2013.*)

Y. FINER, STAFF

**DEN1097Y Advanced Oral Radiology**

The course consists of seminars and radiologic clinics that are composed of the following components: seminars in advanced radiographic interpretation of abnormalities and diseases of the maxillofacial region; a clinical course in special procedures applied to radiologic investigation; temporomandibular joint arthrography training; seminars in critical review of the radiology literature emphasizing mechanisms of disease as the etiology for changes seen in diagnostic imaging; undergraduate teaching experience.

The clinical training includes practical experience with the application extraoral and intraoral radiology, tomography, sialography, arthrography, computed tomography and magnetic resonance imaging to the diagnostic process. The objective of this course is to confer the ability to diagnose the presence of disease, teaching experience and to stimulate critical analysis of the application of diagnostic imaging suitable for meaningful research.

CO-REQUISITE – DEN1007S

M.J. PHAROAH, E.W.N. LAM, 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 & Postgraduate Studies.

The reading course must conform to regulations established by the Department and the School of Graduate Studies (Available in the Student Services Office).

**GRADUATE COURSES OFFERED BY THE FACULTY TO MEET SPECIALITY DEGREE REQUIREMENTS****DEN1006Y Dental Public Health Seminars**

This survey course examines basic issues in dental public health including the determinants of health, primary health care, dental care systems, including insurance, dental health economics, health planning and evaluation, and ethical considerations. The material is presented from the perspective of the community with Canadian and international examples.

STAFF IN DENTAL PUBLIC HEALTH

**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, 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 Periodontology 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.

J. LAI, STAFF

#### **DEN1038Y Periodontology - 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, 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.

J. LAI, STAFF

#### **DEN1041Y Prosthodontics I – Prosthodontic Treatment Planning**

Patients demonstrate a wide range of phenotypes and treatment needs following congenital conditions or diseases that have affected the oro-facial 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, as well as patient-mediated concerns.

A. JOKSTAD, STAFF

#### **DEN1042Y Prosthodontics II – Restorative Dentistry**

This course will consist of seminar and clinical components. The seminar course will cover recent advances in methods and materials in restorative dentistry. The clinical part of this course will enable the student to carry out intra-tooth restorative procedures. This will frequently be an integral part of preparatory operative treatment for patients who will be undergoing comprehensive rehabilitative care.

A. JOKSTAD, 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, and extensive clinical assignments. 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. Particular emphasis is placed on the treatment of partially edentulous patients with advanced periodontal disease. Close co-operation 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 such as patients with congenital orofacial anomalies, who have sustained orofacial trauma, or have undergone oncologic surgery.

A. JOKSTAD, STAFF

#### **DEN1044Y Prosthodontics IV - Patients with the Fully Edentulous Mouth and Advanced Prosthodontic Care**

This combined seminar and clinical course will include critical appraisal of the relevant literature. Recognition and management of the sequelae of the aging edentulous masticatory system will be presented in a seminar format. The treatment of particularly difficult edentulous patients will be emphasized, along with methods for coping with advanced residual ridge resorption and the terminal dentition. The importance of the geriatric aspects of prosthodontics will be given particular attention. The principle of osseointegration and its clinical application will be studied, with the intention that the student will be skilled in different prosthodontic interventions and an understanding of the biomaterials employed.

The dual skills and responsibilities necessitated in preprosthetic surgical treatment and postsurgical prosthodontic rehabilitation in context with implant prosthetics is underscored by the close working relationship the residents will have with surgeons.

STAFF

#### **DEN1045Y Prosthodontics V – Critical Appraisal of the Literature**

This course aims to provide the student with the necessary critical appraisal skills for searching and reading the scientific literature. The importance and relevance of study design architecture is emphasized by introductory critical appraisal and critical review of selected dental literature. These skills will be applied and honed in weekly seminars where the students select, present and defend what they have identified as the best research papers in the contemporary literature relevant to prosthodontic care.

J. ANDERSON, A. JOKSTAD, STAFF

#### **DEN1046Y 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.

Approximately 3 days per week are allocated to clinical patient care sessions, which exclude treatment planning and dental technical work that may vary depending on patient treatment complexity. A half day per week will also be spent at the Bloorview Kids Rehab dental clinic during a 13 week rotation where child and adolescent patients in need of advanced prosthodontic care will be assigned. Additional exposure to maxillofacial prosthodontics will be sought at Princess Margaret Hospital.

#### **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 orofacial 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 in 2012-2013).*

H.P. LAWRENCE, STAFF

#### **DEN1052Y General Anaesthesia for Medical Procedures – Paediatric**

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 paediatric medical procedures.

M. CRAWFORD, E. NG, STAFF, DEPARTMENT OF ANAESTHESIA, HOSPITAL FOR SICK CHILDREN

#### **DEN1053Y General Anaesthesia for Medical Procedures – Adult**

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 continues over the duration of the Dental Anaesthesia program.

V. KAMBLE, STAFF, DEPARTMENT OF ANAESTHESIA, TORONTO EAST GENERAL HOSPITAL

#### **DEN1054Y Sedation and General Anaesthesia for Dentistry – Adult**

This course involves clinical application of all modalities of sedation and anaesthesia for dental patients, with the focus on deep sedation and general anaesthesia. The first-year residents gain experience in the full range of sedation and non-intubated anaesthetic techniques for adults. The clinics take place in the anaesthesia facility at the Faculty of Dentistry, five half-days per week. The residents also spend one day per week administering deep sedation to cognitively impaired and medically compromised patients in the Department of Dentistry at Sunnybrook Health Science Centre.

C. YARASCAVITCH, STAFF

#### **DEN1055H 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.

C. YARASCAVITCH, J. BHALLA

#### **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

#### **DEN1057Y; DEN1058Y; DEN1059Y Dental Anaesthesia Journal Review Yrs I; II and III**

This course involves a weekly review of recent publications in the field of dental anaesthesia. This allows for recognition of current progress in anaesthesia and related topics as well as development of skills of critical review of the literature.

C. YARASCAVITCH, P. COPP

#### **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 discipline.

STAFF

#### **DEN1062H Pharmacology of Dental Therapeutics**

A seminar series that will stress the pharmacological basis for selection and use of drugs as therapeutic agents in the management of clinical problems as related to the practice of dentistry. Special emphasis will be placed on clinically significant drug interactions as they apply to the various groups of agents discussed.

J. LANÇA, STAFF

#### **DEN1063Y Practicum in Dental Public Health**

For the practicum, a student will normally be assigned to study for 14 weeks in a Teaching Health Unit or another agency, which provides dental public health services. The purpose is to learn, by observation and participation, methods of management used by the agency and to conduct a planning or evaluation project.

The dental public health specialist from the agency will supervise the student with periodic contact from the University-based staff.

STAFF IN DENTAL PUBLIC HEALTH

#### **DEN1064H Management Principles in Canadian Dental Organizations**

This is a seminar course usually available in alternate years. The course attempts to 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. (*Offered in alternate years –available 2012-2013*).

STAFF IN DENTAL PUBLIC HEALTH

#### **DEN1073Y Dental Anaesthesia Graduate Seminars**

This weekly course covers a wide range of topics of relevance to dental anaesthesia. The residents give the majority of the presentations. Recently completed and upcoming clinical cases are discussed with respect to anaesthetic management.

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.

N. TENN-LYN

**DEN1075Y General Anaesthesia for Dentistry – Paediatric**

This course involves clinical application of general anaesthesia for paediatric 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. Each resident will spend 6 months on this clinical assignment.

DENTAL ANAESTHESIA 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 orthodontic students.

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.

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.

STAFF

**DEN2004 Y Orthodontics 4 – Interceptive Orthodontics - Third Year Residents**

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

STAFF

**DEN2005Y Surgical Orthodontics**

This course is designed for the treatment of patients with severe malocclusion as a result of underlying facial skeletal disharmony, and thus requires a combined orthodontic and surgical approach. All orthodontic and surgery residents participate as a team since the course requires a continuous interaction between the two departments. The orthodontic and surgical graduate students will treat patients conjointly, requiring a complete therapeutic approach consisting of presurgical orthodontics, surgical correction of skeletal dysplasia, post-surgical (detailing) orthodontics and post-treatment retention. In addition, extensive seminars involving diagnosis and treatment planning of all types of orthognathic anomalies are presented by staff, students and external lecturers throughout the course which extends over three years for the orthodontic student and over four years for the surgery residents

A. METAXAS, H. HOLMES, J. MARKO

**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.

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.

For certain students, clinical experience is given, 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 – not available 2012-2013*).

B.D. TOMPSON, STAFF OF THE HOSPITAL FOR SICK CHILDREN

**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.

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.

G. ALTUNA

**DEN2011Y Craniofacial Morphology and****Development**

A seminar course to cover morphological variations, prevalence, and their methods of detection and origin. In addition, postnatal statics and dynamics of craniofacial growth and development are discussed in an orthodontics orientation.

B.D. TOMPSON

**DEN3001Y Oral Surgery 1 – The Physiological Basis of Disease**

This course provides the Oral and Maxillofacial Surgery resident with the fundamental medical knowledge required for patient care and management, especially in the pre and post-operative phases, and in the assessment of current literature and clinical research. The relationship of the basic sciences – physiology, pharmacology, biochemistry and microbiology, to disease processes of the major system, is emphasized.

H.I. HOLMES, 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. 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.

**Clinical Methods**

The Clinical Methods course will review the fundamentals of preclinical study and introduce a few areas of new factual information. It will focus mainly on the complete gamut of skills required for a comprehensive examination of the patient. 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.

H.I. HOLMES, 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.

H.I. HOLMES

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

This course is designed to teach anatomy for a surgeon, with particular attention to surgical approaches of the head, face, neck and calvarium. Techniques for harvesting bone and development of myocutaneous flaps for reconstruction are reviewed. It is given in a focused, concentrated method over a two-week period at the beginning of Year III.

H.I. HOLMES

### **DEN3005H Head and Neck Anatomy**

The Department of Anatomy, Faculty of Medicine, offers a comprehensive head and neck anatomy course tailored for the specialties of Oral and Maxillofacial Surgery and Endodontics. The course will comprise of four-week (8 hour) lecture series, combined with a cadaver surgical dissection component. Students will have access to specially prepared material, which may be signed out and studied in the Department of Anatomy. Self-instructional manuals will be available for each of the assigned topics. Staff will be available during the surgical dissection laboratories and on a consulting basis.

V. MENDES, STAFF

### **DEN4001Y Paediatric Dentistry 1- Theoretical Paediatric Dentistry**

This course gives seminar instruction throughout the program. Reading assignments and periodic seminar presentations are assigned. The majority of these seminars are presented by the Department of Paediatric Dentistry, but some are given by members of other departments to include subjects such as Advanced Periodontics, Practice Management, Paediatric Pharmacology, Dental Public Health, and Hospital Dentistry. Feeding, Prevention, Cariology, and Dental Materials in Paediatric Dentistry.

M. SIGAL, P. ANDREWS, P. JUDD, J. WILES, M. CASAS, G. KULKARNI, G. BERALL, R. REVUELTA, H. NAINAR, B. MEHDI

### **DEN4002Y Paediatric Dentistry 2 - Journal Review**

A series of discussions between staff and students with active student participation to review critically current publications in journals related to paediatric dentistry. Includes formal case presentations by the students that must be prepared to the standards set by the American Board of Paediatric Dentistry. Includes formal case based presentations by staff according to examination format of the National Dental Specialty Examination in Pediatric Dentistry as set by the Royal College of Dentists of Canada. This program continues throughout all academic years of the MSc program.

M. SIGAL, H. NAINAR, P. JUDD (COORDINATORS)  
WITH DRS. ANDREWS, KULKARNI, FARKOUH,  
BARRETT, FRATKIN, CASAS, KENNY

### **DEN4003Y Paediatric Dentistry 3 - Facial and Dental Growth and Development in Paediatric Dentistry**

This seminar course provides a comprehensive review on Cephalometrics. It focuses on the history of cephalometry and includes the processes involved with establishing a standardized technique for taking cephalometric radiographs on children. The course focuses on research related to the establishment of key cephalometric landmarks and specific cephalometric measurements to assess growth in the maxilla and mandible of a growing child. The principles of bone development in the craniofacial region are reviewed in great detail. The student must understand the biology of soft and hard tissues in the cranium. Finally, the course examines the functional matrix theory as it applies to craniofacial growth. Several theories related to "how the head grows" are discussed. Included is a module in genetics.

D. CHANDRA, S. GONG

### **DEN4004H Paediatric Dentistry 4 - Child Behaviour Management**

This is a seminar program in which students will review critically and discuss literature on principles of human behaviour, developmental psychology, ethnicity and human behaviour, and communication as it applies to the dentistry. Various non-pharmacologic methods of guiding, managing and shaping behaviour in the dental office will be discussed from theoretical and practical perspectives. Some sessions will involve either a case-based approach to highlight the behavioural aspects of dentistry or

a review of videotapes of dentists, including students in this course, interacting with patients.

C. FRIEDMAN, B. MEHDI

#### **DEN4005Y Paediatric Dentistry 5 - Clinical Paediatric Dentistry**

This is a three year course. A combined pre-clinical course in basic paediatric dentistry and orthodontic technique is given early in the first year. Following this course the student assumes his/her clinical assignments which are carried out throughout the Clinical program which includes 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 needs are supervised in the Graduate Paediatric Dentistry Clinic at the University of Toronto and in the Department of Paediatric Dentistry at the Hospital for Sick Children. The students will also be assigned to the general anaesthetic facility/Surgicentre at the Faculty of Dentistry for the comprehensive treatment of children under general anaesthesia. Additional clinical assignments will be given at the City of Toronto Public Health Clinic, the Bloorview Kids Rehab and Mount Sinai Hospital Dental Department. Students will participate in some maxillofacial clinics at the Hospital for Sick Children and the Bloorview Kids Rehab and receive experience in managing medically compromised or handicapped patients and carrying out total dental procedures on disabled patients under general anaesthetic. The program includes mandatory rotations to First Nations in Moose Factory Ontario. The students must take afterhours emergency call at the Hospital for Sick Children in their core program. Mandatory two week craniofacial / plastic surgery rotation at the Hospital for Sick Children in the final year.

M. SIGAL AND STAFF PEDIATRIC DENTISTRY, UOFT,  
P. JUDD AND DENTAL STAFF, HOSPITAL FOR SICK CHILDREN AND BLOORVIEW KIDS REHAB

#### **DEN4006Y Paediatric Dentistry 6 - Oral Surgery as it Applies to Paediatric Dentistry**

This course involves a series of presentations, reading assignments and surgical clinics dealing with special problems in the paediatric 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.

H. HOLMES, A. HADDAD

#### **DEN4007H Paediatric Dentistry 7 - Therapy**

#### **and Trauma**

Seminar course to review 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 MSc paediatric dentistry 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 biological perspective on the clinical sequelae to traumatic injury, 3) a clinical approach to treatment and 4) an evaluative perspective on the results of treatment and trauma.

P. ANDREWS, E. BARRETT, D.J. KENNY, STAFF HOSPITAL FOR SICK CHILDREN, D. MONCARZ

#### **DEN4008Y Paediatric Orthodontics**

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

P. SECTAKOF, S. SMITH

#### **DEN4009Y Paediatrics**

This is a series of seminars and clinics given by the Department of Paediatrics 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. Major infections are reviewed as to etiology, clinical manifestations and treatment, and current immunization procedures are presented. Tumours of a benign or malignant nature which are common to the paediatric 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.

M. WEINSTEIN, PAEDIATRICS, HOSP. FOR SICK



CHILDREN

**DEN4010Y Care of patients with special needs and applied paediatric dentistry**

This course prepares the student to work in a multi-disciplinary clinic as part of interprofessional comprehensive health care. Comprehensive evidence based review of applied pediatric dental care with a focus on the management of the patient who is medically compromised or has special needs in either a community or hospital environment. Includes extensive case based sessions on pediatric oral pathology.

M. SIGAL

**DEN4011Y Conscious Sedation and Anesthesia in paediatric 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. Course includes intensive short nitrous oxide conscious sedation training, conscious sedation and patient management, and general anaesthesia in Yr II. Students must successfully complete Paediatric Advanced Cardiac Life Support (PALS) course.

P. COPP, HSC, ANAESTHESIA

**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 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.

S.FRIEDMAN, 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, and no numerical grade is given.

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.

S. FRIEDMAN, 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.

A.KISHEN, STAFF

#### **DEN5004H 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

#### **DEN5005H 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 Program at University of Toronto. Seminars are held twice a month from July - May. The course will prepare dental residents for the management of dental, oral and maxillofacial emergencies as well as medically compromised patients. The remainder of the seminar topics include recent advances in dentistry, review of recent publications of a wide range of topics of relevance, as well as hands on course in surgical and restorative dental implants. City wide rounds and dental resident presentations are held bi-annually. Residents will also complete and obtain certification in Intravenous Sedation. This is a credit, non-credit based course.

T. MEISAMII

#### **PDE9008H Medicine**

A series of theatre clinics in medicine is given at the Toronto General Hospital. Patients are presented in order to demonstrate the typical lesions of the disease under consideration. The principles and practices used in diagnosis and treatment are considered and the oral

manifestations of systemic disease in patients are demonstrated.

H. HOLMES, STAFF

**PDE9069H Local Anaesthesia for Dental Procedures**

This is a teaching assignment of ten half-days in each of the three years of the program. It is carried out in the Faculty clinics and is in the form of seminars and clinical supervision given to second year undergraduate dental students for all of the local anaesthetic techniques utilized in dentistry.

D. HAAS, STAFF

**PDE9080Y Anaesthesia Seminars**

These seminars are conducted by members of the Department of Anaesthesia, Faculty of Medicine. The topics taken in first year include airway, monitors, acute pain, peri-operative medicine and chronic pain. The topics taken by the second year residents include paediatrics, respiratory and cardiovascular system.

M. LEVINE, DEPT. OF ANAESTHESIA, FACULTY OF MEDICINE

**PDE9094Y Clinical Conferences**

This is a seminar series with compulsory attendance for all clinical students in programs except graduate specialty Oral Pathology & Oral Medicine students. At each session, one or two senior residents give a presentation from the specialty programs. The topics relate to current clinical issues in the individual specialty fields and serve to keep students and interested staff abreast of current treatment philosophy in specialties other than their own. As well, on occasion, guest clinicians may be invited to present.

GRADUATE DEPARTMENT OF DENTISTRY

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

## Dental Anaesthesia – Discipline Head – Dr. D. Haas

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 the discipline 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 6 months at the Hospital for Sick Children. Rotations in internal medicine and emergency medicine are also taken. Each student is required to complete an ACLS (Advanced Cardiac Life Support) course prior to the start of Year I. There is a yearly teaching assignment given to the undergraduate DDS students. The precise timing of the research component can vary and will be incorporated into the schedule on an individual basis. Course DEN1052Y is taken either in the second or third year. The following is an outline of the program.

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The following symbols are used in this and 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.

ψ Indicates a course that may be substituted by an equivalent course offered by another Faculty.

### YEAR I

Introduction to Biostatistics (DEN1015H)  
General Anaesthesia for Medical Procedures – Adult\*↔ (DEN1053Y)  
Sedation and General Anaesthesia for Dentistry – Adult ↔ (DEN1054Y)  
Basic Principles of Anaesthesia (DEN1055H)  
Basic Concepts in Clinical Medicine (DEN1056Y)  
Dental Anaesthesia Journal Review I (DEN1057Y)  
Dental Anaesthesia Postgraduate Seminars (DEN1073Y)  
Foundations of Medicine as Applied to Dental Anaesthesia (DEN1074Y)  
Clinical Epidemiology and Evidence-Based Care DEN1014H  
Department of Anaesthesia Seminars (PDE9080Y)

### YEAR II

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Dental Anaesthesia Journal Review II (DEN1058Y)  
Internal Medicine  
Emergency Medicine  
Department of Anaesthesia Seminars (PDE9080Y)  
Research (RST9999Y)

### YEAR III

General Anaesthesia for Medical Procedures – Paediatric (DEN1052Y)  
General Anaesthesia for Medical Procedures – Adult ↔ (DEN1053Y)  
Dental Anaesthesia Journal Review III (DEN1059Y)  
General Anaesthesia for Dentistry – Paediatric (DEN1075Y)  
Clinical Conferences (PDE9094Y) (SRM)  
Research (RST9999Y)

**Dental Public Health –  
Acting Discipline Head -  
Dr. P. Main**

**Graduate Program  
Director –  
Dr. C. Quiñonez**

This program normally consists of a core of subjects taken in the first year, followed in the second year by the practicum and optional subjects chosen by students in consultation with the course co-coordinator. Courses are given by the Faculty of Dentistry and Faculty of Medicine. The following is an outline of the program curriculum.

A list of appropriate options will be compiled for student selection. Other courses can be arranged according to the student's interest through the Director of the Program, or the Chair of the Graduate Department. 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*

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Dental Public Health Seminars\* (DEN1006Y)  
Introduction to Biostatistics (DEN1015H)  
Oral Epidemiology\* (DEN1051Y)  
Clinical Conferences (PDE9094Y)  
Thesis/Research (RST9999Y)  
Approved Option: Option in Health Promotion

*Second Term*

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Dental Public Health Seminars (DEN1006Y)  
Clinical Epidemiology and Evidence-Based Care (DEN1014H)  
Oral Epidemiology\* (DEN1051Y)  
Practicum in Dental Public Health (DEN1063Y)  
Thesis/Research (RST9999Y)  
Clinical Conferences (PDE9094Y)  
Approved Option

**YEAR II**

*First Term*

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Clinical Conferences (PDE9094Y)  
Thesis/Research (RST9999Y)  
Approved Option in Health Policy, Health Economics

*Second Term*

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Management Principles in Canadian Dental Health Organizations (DEN1064H)  
Clinical Conferences ((PDE9094Y)  
Thesis/Research (RST9999Y)

*Oral Epidemiology will not be offered in 2012-2013. First year students will take this course in Year II in 2013-2014.*

## **Endodontics – Discipline Head - Dr. A. Kishen**

### **Graduate Program Director – Dr. S. Friedman**

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 maintenance of a good research schedule, the program aims to achieve a balanced platform of excellent clinical training 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. (**NOTE:** incoming students are required to purchase a sensor for digital radiography, at an approximate cost of \$4,000 which is included in the instrument kit. 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 Radiology (DEN1007F)  
Introduction to Biostatistics (DEN1015H)  
Graduate Endodontics Case Presentations (DEN5001Y)  
Graduate Endodontics Topical Literature (DEN5002Y)  
Graduate Endodontics Current Literature (DEN5003Y)  
Introduction to Graduate Endodontics (DEN5004H)  
Endodontic Clinic (PDE9091Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

##### *Second Term*

Oral Pathology (DEN1002S)  
Clinical Epidemiology and Evidence-Based Care (DEN1014H)  
Pharmacology of Dental Therapeutics (DEN1062H)  
Graduate Endodontics Case Presentations (DEN5001Y)  
Graduate Endodontics Topical Literature (DEN5002Y)  
Graduate Endodontics Current Literature (DEN5003Y)  
Research Ethics (part of DEN1001Y/  
DEN1100Y Course – but course is not taken until Year III)  
Endodontic Clinic (PDE9091Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)  
Teaching (in the undergraduate preclinical endodontics course)

**YEAR II***First Term*

Investigating Pathogenic Biofilms  
(DEN1022H) - *audit*  
 Oral Physiology: Sensory & Neuromuscular  
Function (DEN1060F) – *audit*  
 Biology of Connective Tissues\*(DEN1080Y)  
– *audit*  
 Graduate Endodontics Case Presentations  
(DEN5001Y)  
 Graduate Endodontics Topical Literature  
(DEN5002Y)  
 Graduate Endodontics Current Literature  
(DEN5003Y)  
 Single Tooth Replacement with Implant  
Supported Prosthesis (DEN5005H)  
 Endodontic Clinic (PDE9091Y)  
 Clinical Conferences (PDE9094Y)  
 Research (RST9999Y)

*Second Term*

Biology of Connective Tissues\*(DEN1080Y)  
– *audit*  
 Graduate Endodontics Case Presentations  
(DEN5001Y)  
 Graduate Endodontics Topical Literature  
(DEN5002Y)  
 Graduate Endodontics Current Literature  
(DEN5003Y)  
 Endodontic Clinic (PDE9091Y)  
 Clinical Conferences (PDE9094Y)  
 Teaching (in the undergraduate preclinical  
endodontics course)  
 Research Ethics (part of DEN1001Y/  
DEN1100Y Course – but course is not  
taken until Year III)  
 Research (RST9999Y)

**YEAR III***First Term*

Master's Seminars in Oral Health Sciences  
(DEN1001Y/DEN1100Y)  
 Biology of Connective Tissues\* (DEN1080Y) –  
*audit*  
 Graduate Endodontics Case Presentations  
(DEN5001Y)  
 Graduate Endodontics Topical Literature  
(DEN5002Y)  
 Graduate Endodontics Current Literature  
(DEN5003Y)  
 Endodontic Clinic (PDE9091Y)  
 Research (RST9999Y)

*Second Term*

Master's Seminars in Oral Health Sciences  
(DEN1001Y/DEN1100Y)  
 Biology of Connective Tissues\* (DEN1080Y) –  
*audit*  
 Graduate Endodontics Case Presentations  
(DEN5001Y)  
 Graduate Endodontics Topical Literature  
(DEN5002Y)  
 Graduate Endodontics Current Literature  
(DEN5003Y)  
 Endodontic Clinic (PDE9091Y)  
 Research (RST9999Y)  
 Teaching (in the undergraduate preclinical  
endodontics course)

## **Oral Pathology and Oral Medicine – Discipline Head - Dr. G. Bradley**

Oral Pathology and Oral Medicine are separate programs each leading to eligibility for examination in the corresponding discipline by the Royal College of Dentists of Canada. Accreditation requirements specify a “core” program common to both disciplines, 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.

A 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 and Second Terms*  
General and Special Pathology for Residents (LMP1005Y) †

### **YEAR II**

*First Term*  
Oral Radiology (DEN1007F)  
Seminars in Advanced Oral Pathology (DEN1011Y) ↔  
Oral Medicine (DEN1012Y) ↔  
Introduction to Biostatistics (DEN1015H)  
Basic Concepts in Clinical Medicine (DEN1056Y) ↔  
Foundations of Medicine (DEN1074H)  
Research (RST9999Y)

*Second Term*  
As in first term but Oral Radiology replaced with Oral Pathology (DEN1002S)  
Clinical Epidemiology and Evidence-Based Care (DEN1014H)  
Research (RST9999Y)

### **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 Radiology – Discipline Head - 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, medical and cone beam computed tomography, magnetic resonance imaging and nuclear medicine 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 and a specific course related to disease mechanisms as they apply to radiology provide an understanding of the mechanisms by which pathologic conditions alter the appearances of tissue structures 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. 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 resident 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 defence.

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*

Oral Radiology (DEN1007F)  
Oral Surgical Pathology (DEN1013Y) ↔  
Advanced Oral Radiology (DEN1097Y) ↔  
Research (RST9999Y)

#### *Second Term*

As in first term plus  
Physics of Radiology – Part I  
Oral Pathology (DEN1002S)  
Temporomandibular Disorders\* (DEN1017S)

### **YEAR II**

#### *First Term*

Master's Seminars in Oral Health Sciences  
(DEN1001Y/DEN1100Y)  
Oral Surgical Pathology (DEN1013Y) ↔  
Introduction to Biostatistics (DEN1015H)  
Advanced Oral Radiology (DEN1097Y) ↔  
Radiation Biology  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

#### *Second Term*

As in first term plus  
Physics of Radiology – Part II  
Clinical Epidemiology and Evidence-Based  
Care (DEN1014H)  
Temporomandibular Disorders\* (DEN1017S)

### **YEAR III**

Advanced Oral Radiology (DEN1097Y)  
Master's Seminars in Oral Health Sciences  
(DEN1001Y/DEN1100Y)  
Research/Thesis (RST9999Y)

## **Oral and Maxillofacial Surgery & Anaesthesia – Acting Discipline Head – Dr. H.I. Holmes**

The program in Oral and Maxillofacial Surgery & Anaesthesia is a minimum of four years (48 months) in length requiring the satisfactory completion of didactic and clinical requirements as well as those of the M.Sc. degree. ACLS training is to be completed prior to commencement of Yr III, ATLS training must be completed before the end of Yr IV. Clinical activities are based primarily at Mt. Sinai Hospital, The Hospital for Sick Children and other affiliated University of Toronto teaching hospitals, with additional participation at Sunnybrook Health Sciences Centre, Bloorview Kids Rehab, Lakeview Health and the Faculty of Dentistry. Residents participate in all areas of Oral and Maxillofacial Surgery and Anaesthesia with increasing responsibilities for patient care in the senior years. In Year IV, electives may be arranged (to a maximum of two months) in craniofacial surgery, head and neck surgery, reconstructive surgery, cleft lip and palate surgery, esthetic/cosmetic surgery and maxillofacial trauma. As part of the requirements for the M.Sc. degree, an original study in clinical, epidemiological, education or laboratory research is undertaken according to the residents' interest. The research must be published in a comprehensive thesis and supported by an oral defence.

The following is the outline of the curriculum. One additional half course related to the research project, may be required for completion of the M.Sc. degree program in Oral and Maxillofacial Surgery & Anaesthesia.

### **YEAR I - First Term**

Master's Seminars in Oral Health Sciences (DEN1001Y)  
Oral Radiology (DEN1007F)  
Oral Surgical Pathology (DEN1013Y)  
Oral Physiology: Sensory & Neuromuscular Function (DEN1060F) - (for thesis-based masters)  
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) - *audit*  
Anatomy (DEN3005H)  
Research (RST9999Y)

### **Second Term**

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Oral Pathology (DEN1002S)  
Oral Surgical Pathology (DEN1013Y)  
Bio Implant Treatment Dent (DEN1082S) - (for thesis-based masters)  
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 (RST9999Y)

**YEAR II - First Term**

Oral Surgical Pathology (DEN1013Y)

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 (Paediatric); Internal Medicine - 2 months; Emergency Medicine - 1 month; General Surgery - 2 months; Otolaryngology - 2 months; SICU - 1 month

**Second Term**

As in first term plus

LMP1407S Introductory Clinical Epidemiology & Applied Biostatistics (replaces DEN1015H)

**YEAR III - First Term**

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)

Oral Surgical Pathology (DEN1013Y)

Surgical Orthodontics (DEN2005Y)

Research (RST9999Y)

**YEAR IV - First and Second 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)

Clinical Conferences (PDE9094Y)

Research/Thesis (RST9999Y)

## **Orthodontics -- Discipline Head - Dr. B.D. Tompson**

Residents 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 Heads of the Disciplines concerned.

The following is an outline of the program curriculum:

### **YEAR I**

#### *First Term*

Oral Radiology (DEN1007F)  
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 Clinical Epidemiology and Evidence-Based Care (DEN1014H)

### **YEAR II**

#### *First Term*

Master's 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 plus  
Occlusion: Function and Dysfunction (DEN1016S)\*  
Temporomandibular Disorders (DEN1017S)\*

### **YEAR III**

#### *First Term*

Master's Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Occlusion: Function and Dysfunction (DEN1016S)\*  
Temporomandibular Disorders (DEN1017S)\*  
Orthodontics 3 – Ortho Tech & Clin Prac (DEN2003Y)  
Orthodontics 4 – Interceptive Ortho (DEN2004Y)  
Surgical Orthodontics (DEN2005Y)  
Craniofacial Anomalies (DEN2007Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

#### *Second Term*

As in first term

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

## **Paediatric Dentistry -- Discipline Head -- Dr. M. Sigal**

The Faculty of Dentistry, University of Toronto offers the only accredited specialty program in Paediatric Dentistry, in English, in Canada. This is a three year program leading to a Master's of Science Degree with advanced clinical training in all aspects of Paediatric Dentistry. The didactic program will be 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 rotations to the Bloorview Kids Rehab and Mt. Sinai Hospital. The program will also involve rotations to public health community dental clinics and to Northern Ontario. Students will manage emergency cases, cases under general anaesthesia, will provide hospital and faculty consultations, cases under conscious sedation, paediatric pathology, paediatric oral and maxillofacial surgery, fixed and removable orthodontics and complex restorative cases. In addition, students will be given some undergraduate teaching responsibilities. Students are required to complete a Master's research project during the program. As this program develops, the 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*

Craniofacial Anomalies\* (DEN2007Y)  
Human Genetics (PDE9081H)  
Introduction to Biostatistics (DEN1015H)  
Oral Radiology (DEN1007F)  
Paediatric Orthodontics (DEN4008Y)  
Paediatrics (DEN4009Y)  
Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review (DEN4002Y)  
Paediatric Dentistry 3 – Facial and Dental Growth and Development in Paediatric Dentistry (DEN4003Y)  
Paediatric Dentistry 4 – Child Behaviour Management (DEN4004Y)  
Paediatric Dentistry 5 – Clinical Paediatric Dentistry (DEN4005Y)  
Paediatric Dentistry 6 – Oral and Maxillofacial Surgery as it Applies to Paediatric Dentistry (DEN4006Y)  
Paediatric Dentistry 7 – Pulp Therapy and Trauma (DEN4007H)

Paediatric Dentistry 8 – Conscious Sedation and Anaesthesia in Pediatric Dentistry (DEN4011Y)  
Paediatric Dentistry 9 – Care of Patients with Special Needs and Applied Paediatric Dentistry (DEN4010Y)  
Preventive Dentistry (DEN1003H)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

#### *Second Term*

Oral Pathology (DEN1002S)  
Clinical Epidemiology and Evidence-Based Care (DEN1014H)  
Pharmacology of Dental Therapeutics (DEN1062H) (*Audit*)  
Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review (DEN4002Y)  
Paediatric Dentistry 3 – Facial and Dental Growth and Development in Paediatric Dentistry (DEN4003Y)  
Paediatric Dentistry 4 – Child Behaviour Management (DEN4004Y)  
Paediatric Dentistry 5 – Clinical Paediatric Dentistry (DEN4005Y)  
Paediatric Dentistry 6 – Oral and Maxillofacial Surgery as it Applies to Paediatric Dentistry (DEN4006Y)  
Paediatric Dentistry 7 – Pulp Therapy and Trauma (DEN4007H)  
Paediatric Orthodontics (DEN4008Y)  
Paediatrics (DEN4009Y)  
Paediatric Dentistry 8 – Conscious Sedation and Anaesthesia in Pediatric Dentistry (DEN4011Y)  
Paediatric Dentistry 9 – Care of Patients with Special Needs and Applied Paediatric Dentistry (DEN4010Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

#### *Third Term*

Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review (DEN4002Y)  
Paediatric Dentistry 5 – Clinical Paediatric Dentistry (DEN4005Y)  
Research (RST9999Y)

**YEAR II***First Term*

Craniofacial Anomalies\* (DEN2007Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)  
Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review  
(DEN4002Y)  
Paediatric Dentistry 5 – Clinical Paediatric  
Dentistry (DEN4005Y)  
Paediatric Orthodontics (DEN4008Y)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

*Second Term*

As in first term replacing Craniofacial Anomalies  
(DEN2007Y)  
Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review  
(DEN4002Y)  
Paediatric Dentistry 5 – Clinical Paediatric  
Dentistry (DEN4005Y)  
Research (RST9999Y)

*Third Term*

Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review  
(DEN4002Y)  
Paediatric Dentistry 5 – Clinical Paediatric  
Dentistry (DEN4005Y)  
Research (RST9999Y)

**YEAR III***First, Second Term and Third Term*

Seminars in Oral Health Sciences  
(DEN1001Y/DEN1100Y)  
Paediatric Dentistry 1 – Theory (DEN4001Y)  
Paediatric Dentistry 2 – Journal Review  
(DEN4002Y)  
Paediatric Dentistry 5 – Clinical Paediatric  
Dentistry (DEN4005Y)  
Research (RST9999Y)

## **Periodontology – Discipline Head - Dr. J. Lai**

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, which are being tested as part of ongoing prospective trials in reconstructive dentistry as well as geriatric care. 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. Also, by second year, residents are expected to be proficient 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 1<sup>st</sup> year will be expected to enter the thesis stream program in June or July. At this point, they will have chosen a research project/supervisor so that they may begin their research projects. The 1<sup>st</sup> 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 2<sup>nd</sup> and 3<sup>rd</sup> years of the program. The written part of the Royal College of Dentists Fellowship Exam should be written in the Spring of their final year. Furthermore, Residents in Graduate Periodontology cannot write the examination until they have submitted their thesis. Residents will be given 2 weeks for a study period, which will exempt them from clinic duties and any didactic courses, which they might have at that time. Residents are not permitted any additional time away from the clinic or other assignments. There will be no time off allowed to study for the oral part of the Fellowship examination. If a resident is unable to complete the thesis-stream Masters program, the resident will be asked to withdraw from the program in graduate periodontology. In only rare circumstances and at the discretion of the Head of Periodontology is a resident allowed to switch from a thesis stream Masters 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: 1) Camera for Case Documentation (details provided upon acceptance) 2) Textbooks: "The Biology of the Periodontal Connective Tissues" and "Periodontal Examination" and "Periodontics: Medicine, Surgery, and Implants 2004, Rose, Mealey and Genco" and "Clinical Periodontology and Implant Dentistry, 5<sup>th</sup> edition, 2008 Lindhe, Karring, Lang (details provided upon acceptance). 3) Up-to-date computer (preferably a laptop). 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)  
Biology of Connective Tissues\* (DEN1080Y)  
Introduction to Biostatistics (DEN1015H)  
Periodontology – Seminars and Clinics I (DEN1033Y)  
Literature Review in Periodontology (DEN1036Y)  
Principles and Practice of Periodontology (DEN1039Y)  
Research (RST9999Y)

##### *Second Term*

As in first term with the addition of Clinical Epidemiology and Evidence-Based Care (DEN1014H)

#### **YEAR II**

##### *First Term*

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Oral Radiology (DEN1007F)  
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)  
Clinical Conferences (PDE9094Y)  
Research (RST9999Y)

##### *Second Term*

Same as First Term plus Oral Pathology (DEN1002S)

#### **YEAR III**

##### *First Term and Second Term*

Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)  
Oral Surgical Pathology (DEN1013Y)  
Periodontology - Seminars and Clinics III (DEN1035YY)  
Clinical Case Presentations (DEN1037Y)  
Biomaterials and Implant/Reconstructive Dentistry (DEN1038Y)  
Principles and Practice of Periodontology (DEN1039Y)  
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 – Discipline Head – Dr. A. Jokstad**

This degree program prepares students for careers in the specialty of Prosthodontics with particular emphasis on developing clinical teachers and researchers in its diverse sub disciplines. 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 Discipline of Prosthodontics and the Implant Prosthodontic Unit. A half day per week will also be spent at the Bloorview Kids Rehab dental clinic during a 13 week rotation where child and adolescent patients in need of advanced prosthodontic care will be assigned. Additional exposure to maxillofacial prosthodontics will be sought at Princess Margaret Hospital. 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 Discipline Head.

The three year course leads to a Master of Science Degree. Students interested in pursuing a research career will also have the opportunity to apply for a Ph.D position. A formal curriculum is available to ensure that the discipline's 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*

Clinical Prosthodontics (DEN1046Y)  
Research (RST9999Y)  
Introduction to Biostatistics (DEN1015H)  
Oral Physiology: Sensory and Neuromuscular Function (DEN1060F)  
Oral Radiology (DEN1007H)  
Prosthodontics I - Prosthodontic Treatment Planning (DEN1041Y)  
Prosthodontics II - Advanced Operative/Restorative Dentistry\* (DEN1042Y)  
Prosthodontics III - Patients with the Partially Edentulous Mouth and Advanced Prosthodontic Care (DEN1043Y)  
Prosthodontics IV - Patients with the Fully Edentulous Mouth and Advanced Prosthodontic Care (DEN1044Y)  
Prosthodontics V - Introduction to Critical Appraisal of the Dental Literature and Evidence-based Practice (DEN1045Y)

#### *Second Term*

Same as first term with the addition of Clinical Epidemiology and Evidence-Based Care (DEN1014H)

### **YEAR II**

Clinical Prosthodontics (DEN1046Y)  
Elective Graduate Courses  
Research (RST9999Y)  
Advances in Dental Materials (DEN1070S)\*  
Occlusion: Function and Dysfunction (DEN1016S)\*  
Prosthodontics I (DEN1041Y), III (DEN1043Y), IV (DEN1044Y)  
Temporomandibular Disorders (DEN1017S)\*

### **YEAR III**

Clinical Prosthodontics (DEN1046Y)  
Elective Graduate Courses  
Research (RST9999Y)  
Clinical Conferences (PDE9094Y)  
Prosthodontics III (DEN1043Y), IV (DEN1044Y)  
Seminars in Oral Health Sciences (DEN1001Y/DEN1100Y)

## 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  
Mount Sinai Hospital  
Sunnybrook Health Sciences Centre

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/Postgraduates Studies, 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

### Application

Application forms and descriptive literature may be obtained from the Faculty of Dentistry website at: [www.utoronto.ca/dentistry](http://www.utoronto.ca/dentistry). The completed application should be submitted to the Admissions Office prior to September 30. Successful candidates will be registered as Postgraduate students in the Faculty of Dentistry, Division of Postgraduate Dental Education.

### Citizenship and Residence

Under present Canadian Immigration regulations, Canadian Citizens and Permanent Residents of Canada (i.e. Landed Immigrants) have preferred status for residencies. Due to the number of qualified Canadian Citizens and Permanent Residents who apply each year, the opportunity for other applicants to secure a position is normally minimal.

### Regulations

**1** A candidate to be eligible for registration in a Dental Residency Program shall be either a graduate of the Doctor of Dental Surgery Program of the Faculty of Dentistry, University of Toronto, or shall possess equivalent qualifications by the commencement of the appointment in June. Foreign-trained dental graduates i.e. graduates of non-accredited dental programs, should normally have completed a qualifying program and the NDEB examinations. Under exceptional circumstances, however, candidates without these qualifications may be accepted on the basis of individual credentials. Applicants should be aware that in most years, no applicants are accepted unless they have successfully completed a qualifying program or International Dentist Advanced Placement Program and the NDEB examinations.

**2** Candidates who hold residencies in hospitals are required to obtain either an Educational certificate or a General licence. Candidates who have not completed the NDEB exams obtain an Educational certificate. Annual costs are the current charges for the General licence or the Educational certificate, plus annual charges for the application and registration fee.

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

### Procedures for Application

This is a two-step application process. Documentation must be provided for each step according to the following schedule:  
*Step 1 – Application Deadline: September 28.*  
*Step 2 - Interviews. Deadline for Hospital Preference Form: November 9.*

Interviews are an integral part of the application process. Only in very exceptional circumstances are dental residents selected without having been interviewed. The U of T Teaching Hospitals will conduct their interviews after the application deadline. Normally, interviews take place from mid-October to early November. Each Hospital Dental Department sets its own interview schedule independently of the other Hospitals. As a result, you will be

required to attend an interview with each of the Hospital Dental Departments in which you are interested. You are responsible for contacting the Hospital Dental Departments directly to make arrangements.

#### **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.

## **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 discipline 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.

# 6 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 to a maximum of 12 months of training in total. The length of the program will be decided by the Discipline and the needs of the candidate. 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:

- Dental Anaesthesia
- Dental Public Health
- Endodontics
- Oral Pathology & Oral Medicine
- Oral Pathology
- Oral Medicine
- Oral Radiology
- Orthodontics
- Oral & Maxillofacial Surgery & Anaesthesia
- Paediatric Dentistry
- Periodontology (*currently not accepting applications*)
- Prosthodontics

### Academic Requirements

In order to be eligible to apply to the DSATP, applicants must be graduates of a specialty dental program not recognized by CDAC. A notarized copy of dental school marks, a notarized copy of dental specialty marks, a notarized copy of the dental diploma and a notarized copy of the specialty diploma or degree must be submitted with the

application. Documents that are not in English must be accompanied by a notarized English translation. Applicants must also have completed the Dental Specialty Core Knowledge Examination.

#### **Citizenship and Residence**

Applicants must be Canadian Citizens or Permanent Residents of Canada on or before the deadline date for applications (March 31). A photocopy of proof of Canadian Citizenship or Permanent Resident Card must be submitted with your application.

#### **English Facility Requirements**

All applicants must be proficient in both written and spoken English. Applicants whose first language (i.e. the language learned at home as a child) is not English and who have completed less than four years of full-time academic study in an English language school system located in a country where English is the primary language, are required to achieve an appropriate standard in a recognized test of English facility. 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.

However, we will exempt from English facility testing any applicant who has successfully completed, with grades of "C" or higher, at least four full degree courses, including at least one full course in English, Social Sciences or Humanities taught in English, in a recognized English-medium university located in a country where English is the primary language. We will also exempt from English facility testing any applicant who is a bilingual francophone and who has satisfactorily completed at least four years of full-time academic study in the Canadian school system.

*Acceptable proof of English facility must be submitted by the application deadline.* If acceptable proof of English facility is not received by the application deadline, the application will be cancelled. Tests taken more than two years prior to the application deadline will not be considered. Official test scores must be sent by the testing agency directly to the Admissions Office, Faculty of Dentistry, University of Toronto. The following tests are recognized:

#### **Test of English as a Foreign Language Paper-based Test (TOEFL PBT) and the Test of Written English (TWE), and Internet Based TOEFL (IBT).**

Those who present the paper-based TOEFL must ensure that the Test of Written English (TWE) is also available on their test date. The TOEFL CBT includes an Essay Rating in

every test.

#### Minimum Requirement

TOEFL PBT - total score 600+5.0 on TWE  
TOEFL IBT - total score 100+22 on Writing  
*Note:* The TOEFL Institution Code is 0982-00.

TOEFL/TWE Bulletins may be obtained from American embassies and consulates, offices of the United States Information Service (USIS), or you may contact TOEFL Services, Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151 USA. Telephone: (609) 771-7100; Fax: (609) 290-8972; Email: [toefl@ets.org](mailto:toefl@ets.org); Web site: [www.ets.org/toefl](http://www.ets.org/toefl). You may also pick up a TOEFL CBT Bulletin at Enrolment Services, University of Toronto, 172 St. George Street, Toronto, ON M5R 0A3. Telephone: (416) 978-2190; Web site: [www.adm.utoronto.ca](http://www.adm.utoronto.ca).

#### **International English Language Testing System (IELTS).**

The minimum requirement is an overall band of 6.5, with no band below 6.0. For information about this test, world-wide test centres and registration procedures, you may contact The IELTS Office at [www.ielts.org](http://www.ielts.org). You may also contact the Ontario Test Centre at: IELTS Test Centre, Conestoga College, 299 Doon Valley Drive, Kitchener, ON N2G 4M4. Telephone: (519) 748-3516; Fax: (519) 748-6289; E-mail: [ielts@help@conestogac.on.ca](mailto:ielts@help@conestogac.on.ca); Website: [www.ieltscanada.ca](http://www.ieltscanada.ca). A Toronto Test Centre has opened at: GVT Exams Inc., IELTS Administrator, 180 Bloor Street West, Suite 202, Toronto, ON M5S 2V6. Telephone: (416) 209-6685; Fax: (416) 968-6667; Email: [info@ieltstoronto.com](mailto:info@ieltstoronto.com); Website: <http://www.ieltstoronto.com>.

#### **Michigan English Language Assessment Battery (MELAB).**

The minimum requirement is an overall score of 85, with no part below 80. Information Bulletins and Registration Forms may be obtained from CaMLA, Argus 1 Building, 535 West William Street, Suite 310, Ann Arbor, MI 48103-4978, USA. Telephone: (734) 615-9629; Fax: (734) 763-0369; Email: [info@cambridgemichigan.org](mailto:info@cambridgemichigan.org); Website: [www.cambridgemichigan.org/melab](http://www.cambridgemichigan.org/melab) or the Toronto MELAB Centre, website: [www.melab.ca](http://www.melab.ca).

Applicants in the Toronto area may register in-person at the Toronto MELAB Centre, 45 Willcocks Street, Toronto, ON M5S 1C7. Telephone: (416) 946-3942; Fax: (416) 946-0337; E-mail: [info@melab.ca](mailto:info@melab.ca). You may also pick up a MELAB Bulletin at Enrolment Services.

**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 Reading and Listening. Currently available in Toronto only. COPE Information Bulletins with registration forms and sample questions may be picked up at Enrolment Services, or you may contact COPE Testing Ltd., 7B Pleasant Blvd., Box 957, Toronto, ON M4T 1K2 (note: this is a mailing address only). Telephone: (416) 962-2673; Email: [info@copetest.com](mailto:info@copetest.com). Complete information, including a downloadable registration form, is available at web site: [www.copetest.com](http://www.copetest.com).

### **Dental Specialty Core Knowledge Examination**

Applicants are required to take the Dental Specialty Core Knowledge Examination administered by the Association of Canadian Faculties of Dentistry (ACFD) before the application deadline, and to arrange for their results to be forwarded to the Admissions Office. The last available test date for admission in summer of 2013 is November 2011 and November 2012. Tests taken more than two years prior to the application deadline will not be considered. Examination information and registration package may be obtained from The Association of Canadian Faculties of Dentistry, 100 Bronson Avenue, Suite 204, Ottawa, Ontario, Canada K1R 6G8. Telephone: (613) 237-6505; Fax: (613) 236-8386; Email: [director@acfd.ca](mailto:director@acfd.ca); Web site: [www.acfd.ca](http://www.acfd.ca).

### **Procedures for Application**

University policies on access to student records and personal privacy allow us to communicate only with the applicant unless we have written permission to discuss the application with someone else. Applications must be downloaded from the Faculty of Dentistry website at: <http://www.utoronto.ca/dentistry/admissions/>.

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. DOCUMENTS WILL NOT BE RETURNED TO APPLICANTS. Therefore, do not send originals.

March 29<sup>th</sup> each year: APPLICATION DEADLINE. Application forms and all supporting documents must be received in the Admissions Office by March 29<sup>th</sup>, at 5:00 p.m., which is the application deadline. The following documents must accompany your completed application form:

- ~ non-refundable application service fee of \$250 CAD (certified cheque or money order payable to the Faculty of Dentistry, University of Toronto). We do not accept personal cheques.
- ~ proof of Canadian Citizenship or Permanent Resident status (photocopy only).
- ~ notarized copy of your dental school marks accompanied by a notarized English translation, if applicable.
- ~ notarized copy of your dental specialty marks accompanied by a notarized English translation, if applicable.
- ~ notarized copy of your dental school diploma/degree accompanied by a notarized English translation, if applicable.
- ~ notarized copy of your dental specialty school diploma/degree accompanied by a notarized English translation, if applicable.
- ~ proof of name change, if applicable.
- ~ One page statement of interest, including current activities and when you last practiced your specialty.
- ~ detailed Curriculum Vitae/Resume
- ~ two letters of reference
- ~ ACFD the Dental Specialty Core Knowledge Examination results (photocopy only).

In addition, applicants must arrange for the following documents to be submitted directly to the Admissions Office from the issuing institution(s): proof of English facility.

Applications must be filled online or printed clearly in ink. If your application is not completed legibly, has missing information or does not include the application service fee, it will be returned to you for completion. The normal application deadline will still apply. Please sign and date your application. The discovery that any information or documentation submitted in support of an application is false or misleading or that any material information has been concealed or withheld will invalidate the application and will result in its immediate rejection, or in the immediate revocation and cancellation of admission and/or registration if the applicant has been admitted.

**Selection of Applicants**

Applications will be reviewed after the application deadline. Applicants who are considered to have potential based on their application documents will be invited to the Faculty of Dentistry for an interview. The decision of the Faculty of Dentistry concerning admission into the International Dentist Advanced Placement Program is final. No appeal mechanism exists.

**Admission Deposit**

A \$2,000 (CAD) non-refundable deposit will be required from each applicant granted admission. It will be applied to the fees providing s/he registers.

## 6 Student Affairs and Student Services

### **Student Affairs**

Each D.D.S. class has a president who is normally used as a channel for communicating class concerns to the Faculty Registrar, or student representatives. The President of the Graduate and Postgraduate Students' Society fulfils this role for his/her colleagues.

In addition to the formal links described above, 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 or the Associate Dean (Graduate and Postgraduate Studies) as appropriate, is 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 committee or individual should inquire at the Student Services Office (Room 104).

#### **Dental Students' Society - D.S.S.**

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. Faculty representatives encourage and assist the students in their participation in extra-curricular activities. An additional fee is charged to students in their First Year in the Faculty to cover the cost of special events such as the Graduation Ball and the Boat Cruise.

#### **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**

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.

### **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 Robarts Library, 130 St. George Street, First Floor. For more information please call (416) 978-8060 (Voice) or (416) 978-1902 (TDD) FAX # (416) 978-8246.

### **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.

### **Housing Service**

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 2012-2013 school terms, the cost of residence with a full meal plan was approximately \$9,801 to \$16,187 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 \$7,230 to \$8,181. Fees are usually paid in two installments at the beginning of each of the four-month fall and spring terms. For 2012-2013, rent for the university family housing ranged from approximately \$680 to \$1,116 depending on the location and size of the unit, and is payable monthly. Rooms in shared houses or apartments off-campus generally cost students \$400 to \$600 per month. However, a student requiring a private apartment off-campus usually pays \$550 to \$750, \$700 to \$900 or \$900 to \$1300 for a bachelor, one- or two-bedroom unit respectively. A three-bedroom apartment will usually rent for \$1300 to \$1800.

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; e-mail: [housing.services@utoronto.ca](mailto:housing.services@utoronto.ca); Website: <http://link.library.utoronto.ca/StudentHousing/>

#### **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](mailto:ombuds.person@utoronto.ca); Website: [www.utoronto.ca/ombudsperson/](http://www.utoronto.ca/ombudsperson/)

#### **Sexual Harassment Education, Counselling and Complaint Office**

The University of Toronto does not tolerate any form of sexual harassment and is actively endeavouring 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: [www.utoronto.ca/sho](http://www.utoronto.ca/sho)

#### **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](mailto:family.care@utoronto.ca); Website: [www.library.utoronto.ca/equity/familycare/fmcmain.htm](http://www.library.utoronto.ca/equity/familycare/fmcmain.htm)

## 7 Awards, Financial Assistance and Fees

In the following pages the various scholarships, prizes, bursaries and loan funds available to students in the Faculty of Dentistry are described.

**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

### 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.

### 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.

### 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.

### Dr. Gordon Nikiforuk Admission Scholarship

This award was established by Colgate-Palmolive Canada Inc. In honour of Dr. Nikiforuk, Dean of the Faculty of Dentistry from 1970 to 1977 and a long time member of the Preventive department until his retirement in 1988. The annual donation of \$1,000 is to be given to a student upon entrance into the first year of the D.D.S. program who shows outstanding academic ability and financial need. First awarded in 1997.

### 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.

### 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.

## First Year

### 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.

### 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 Gestie Perkin Prize

This prize was established by James Gestie Perkin, D.D.S., class of 1925, a long time teacher of Preclinical Techniques. Following his death in 1957, in co-operation with the Associates of the University of Toronto of New York, Inc., this prize was continued by his brother, the late Frank Scott Perkin, M.D., a past President of the American Medical Association,

and since 1979, by his cousin, Alan Bruce Perkin, D.D.S., class of 1962. The prize of \$250 is awarded to the First Year student with the highest mark in Restorative Dentistry. First awarded in 1949.

#### **Royal College of Dental Surgeons' Scholarship in Basic Sciences**

Through the generosity of the Royal College of Dental Surgeons of Ontario, an award of \$350 is given to a First Year student who is most outstanding in the subject chosen annually by Faculty Council. Honours' standing is required. First awarded in 1972.

#### **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.

#### **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.

#### **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.

#### **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 monetary scholarships of \$500 each, presented to the students with the highest overall achievement in First and Second Years respectively.

#### **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**

#### **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 annual income from the fund. The awards will alternate with the Schwetz Memorial Scholarships given in the same subject areas. First awarded in 1978/79.

#### **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.

#### **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.

#### **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.

**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.

**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.

**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.

**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. Every other year an award will be given to the Second Year student with the highest mark in Restorative Dentistry and a second award to the Third Year student with the highest mark in Oral Surgery. Each award will consist of one-half of the income from the fund over two years. The award will alternate with the Dr. Isaac Ben Ezra Scholarships given in the same subject areas. First awarded in 1979/80.

**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.

**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.

**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.

## Third Year

**The Academy of Dentistry Prize**

The Academy of Dentistry Prize of the value of \$250 is awarded to the most outstanding student in the third year of the D.D.S. program in the subject of Dental Public Health.

**Association of Prosthodontists of Ontario Book Award**

The Association of Prosthodontists of Ontario has established this book award for the most outstanding student in Prosthodontics. The award is one of the textbooks required for the Fourth Year Prosthodontics course selected by the discipline and paid for with an annual

donation by the Association. First awarded in 2000.

#### **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.

#### **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.

#### **Colgate-Palmolive Scholarship**

The Colgate-Palmolive Scholarship, the gift of Colgate-Palmolive Limited, is an annual prize with a value of \$250 awarded to the most outstanding student in the field of Preventive Dentistry. The first award was made in 1958 and the terms revised in 1974.

#### **Murray Cornish Scholarship**

The Murray Cornish Scholarship, presented by the Toronto Alumni Chapter of Alpha Omega Fraternity is a monetary award of \$200 and is awarded annually to the most outstanding student in the subject of Oral Pathology. Honours standing in the subject is required. The award was first made in 1972.

#### **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.

#### **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.

#### **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 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.

#### **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.

#### **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.

#### **The Dr. John M. Phillips Award**

The George Hare Endodontic Study Club has established an award, in honour of John M. Phillips, D.D.S., to be made to the most outstanding Third Year student in theoretical endodontics. The winner will receive \$500 and a plaque. First



awarded in 1982.

#### **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.

#### **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. Every other year an award will be given to the Second Year student with the highest mark in Restorative Dentistry and a second award to the Third Year student with the highest mark in Oral Surgery. Each award will consist of one-half of the income from the fund over two years. The award will alternate with the Dr. Isaac Ben Ezra Scholarships given in the same subject areas and was first awarded in 1979/80.

#### **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.

#### **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 University of Toronto Chinese Dental Students' Association Scholarship**

The University of Toronto Chinese Dental Stu-

dents' 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.

#### **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. Paedodontics. 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 Paediatric Dentistry. The student's interest, attitude and conduct will also be considered in making this award. First awarded in 1978.

## **Fourth Year**

#### **Academy of Dentistry Prize**

The Academy of Dentistry Prize of the value of \$250 is awarded to the most outstanding student in the clinical work of Paediatric Dentistry. First awarded in 1944.

#### **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. It is in the form of an inscribed plaque. 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 receive a significant number of points from the Dental Students' Society on the basis 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 comprising a textbook 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.

#### **The Denty/University of Toronto/Tel Aviv University Dental Student Exchange Award**

This award was established by the Canadian

Friends of Tel Aviv University to permit students from this Faculty to visit the Faculty of Dentistry at Tel Aviv University in Israel. This award is to be given to undergraduate dental students at the University of Toronto who demonstrate financial need. It is to be used to help defray travel and living expenses while in Israel. This exchange is one of the selective electives in the Fourth Year program and the recipients are expected to spend a month over the Christmas break in Fourth Year at Tel Aviv University. First awarded in 1998.

#### **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 be 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 Paediatric 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 DDS graduating student with the highest cumulative standing in the didactic and clinical aspects of third and fourth year paediatric dentistry and orthodontics. First awarded under the new terms in 2008.

**S. A. MacGregor Prize**

The Ontario Chapter of the Canadian Society of Dentistry for Children will award a certificate plus a textbook chosen by the CSDC Study Club and a free 1-year membership to the Study Club in honour of S. A. MacGregor, D.D.S., former professor of Paedodontics and Chairman of the Department, to the most outstanding student in clinical Paedodontics. First awarded in 1969/70 and amended in 2004.

**John Earl Moser Memorial Prize**

The H. M. Worth Radiology Study Club, to honour the memory of the late Dr. J. E. Moser, former head of the Department of Radiodontics, awards annually the sum of \$250 to the most outstanding student in the subject of Radiology. The first award was made in 1956. This prize is not tenable with the Maxwell Rockman Memorial Prize.

**Dr. Charles Hyman Moses Award**

This award was established by Dr. J. H. Griss in honour of Dr. Charles Hyman Moses. An 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.

#### **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 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 disciplines 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. The prize is not tenable with the John Earl Moser Memorial Prize.

#### **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**

This 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.

#### **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.

#### **Henry Schein Ash Arcona 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.

#### **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.

## **Summer Funding for D.D.S. Students**

#### **Summer Student Exchanges**

For students who have successfully completed Third Year, the Faculty of Dentistry has arranged summer student exchanges in the following countries: Australia and Holland. Students who are selected to participate in these exchanges will typically spend 2-4 weeks during the summer months at the host site and will participate in a variety of dental programs at the host university and other facilities. The students participating in these exchanges will have their airfare paid and will receive a stipend to assist with their lodging and other expenses. Interested students should submit an up-to-date resume and a biographical sketch to the Faculty Registrar, by the end of January of the current academic year.

#### **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 Grading Practices Committee. For further information, students should consult 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.

#### **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.

#### **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 DDS program ('87) and the M.Sc. in Paediatric Dentistry program ('95) in honour of her parents.

This award will be awarded to a student who has successfully completed third year of the DDS program and will be used for a one month summer elective placement providing care for persons with disabilities (including geriatric care) at one of the Faculty of Dentistry's affiliated teaching hospitals.

## **Other Funding for D.D.S. Students**

#### **National Defence Dental Officer Training Plan**

#### **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.

## **Omicron Kappa Upsilon**

Omicron Kappa Upsilon is an honour dental society established to promote scholarship and to honour character among students of dentistry. Tau Tau is the local chapter at the University of Toronto, affiliated with the larger International Dental Society. The local chapters are made up of four types of membership: Charter members, active or Faculty members, Honorary members and Alumni members.

#### **Alumni Members**

The Alumni members are those individuals who during their final year at a dental school are selected by the active members and invited to membership in the Society. The selection is made on the basis of the student's scholastic record and character through all undergraduate years at the dental school as well as potential for future professional growth and development. Tau Tau Chapter honours the alumni members chosen during their final year. Each student so honoured will be presented with a certificate of membership in the Society as well as a gold key.

## Research Award

### 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

### Astra Tech Research Fellowship in Prosthodontics

The award was established by Astra Tech to support research by graduate students in the discipline of Prosthodontics. 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 pliers 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 & Anaesthesia. 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 December 31st 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 Speciality Scholarship  
This award category provides two annual scholarships; each valued at \$12,000 to be awarded to outstanding students entering M.Sc. Dental Speciality 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 speciality 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.

#### **Nobel Biocare Research Fellowship in Prosthodontics**

The award was established by Nobel Biocare to support research by graduate students in the discipline of Prosthodontics. First awarded in 2008.

#### **Shimon Friedman and Cal Torneck Research Fellowship in Endodontics**

The award was established by the University of Toronto Endodontic Alumni and Friends to honour Dr. Shimon Friedman and Dr. Cal Torneck's contribution to the discipline of Endodontics at the University of Toronto. The award will support research by graduate students in the discipline of Endodontics. First award in 2008.

#### **Dr. Norman Levine Bursary in Graduate Paediatric 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 Paediatric Dentistry from 1978 to 1993. This award is to be given to a student currently in the graduate program in Paediatric 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.

#### **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 & Anaesthesia.

#### **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.

**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.

**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 the discipline of Public Health. First award to be given 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 the Graduate Discipline 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. Jaro 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 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 QSST 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**

These bursaries are awarded to students as part of a U.T.A.P.S. grant as explained on the next page. No application is required by the student.

#### **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.

#### **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). DDS students who are in financial need may apply for bursary assistance from this fund.

#### **Cerum Ortho Organizers Bursary**

Cerum Ortho Organizers each year provides \$500 for a bursary to be awarded on the basis of financial need to a student in any year of the D.D.S. program in which Orthodontic courses are given. First awarded in 2003.

#### **Charles Hunt Scholarship**

(First or Second D.D.S. Year)

This endowment was established by Dave Hunt and matched by the Ontario Trust for Student Support (OTSS). It is to be awarded to DDS students in first or second year of the program on the basis of financial need. Students must be in good academic standing to apply for bursary assistance.

#### **Classic Dental Laboratories Bursary**

Classic Dental Laboratories Ltd. each year provides \$500 for a bursary to be awarded to a student in the 3<sup>rd</sup> or 4<sup>th</sup> year of the D.D.S. program on the basis of financial need. First awarded in 2003.

#### **Dental Alumni Association Bursaries**

(Any D.D.S. Year)

Through the generosity of the Dental Alumni, two Dental Alumni Association Bursaries, each of the value of \$200, are offered each year to students enrolled in any year of the course in Dentistry upon the basis of need and scholarship. The first awards were made in 1953.

#### **Dental Alumni Association Admission Bursary Fund**

(First D.D.S. Year)

The Dental Alumni Association also provides \$500 each year for the awarding of bursaries to students in the first year of the course. These admission bursaries were established in 1972 and first presented in session 1972/73. They replace an admission scholarship provided by the Dental Alumni Association up to 1971/72.

#### **Dentistry Annual Fund Bursary Fund**

(Any D.D.S. Year)

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**

(Any D.D.S. Year)

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 DDS students on the basis of financial need.

#### **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 DDS graduate. To be awarded to DDS students on the basis of financial need. First awarded in 2008.

#### **The Dr. Harry Jolley Bursary**

(Any D.D.S. Year)

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. 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.

#### **Dr. Nicholas A. Mancini Bursary**

(Any D.D.S. Year)  
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 DDS students on the basis of financial need.

#### **ODA Student Bursary**

(Any D.D.S. Year)  
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 DDS 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**

(Any D.D.S. Year)  
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.

#### **Toronto Alpha Omega Memorial Bursary**

(Third D.D.S. Year)  
This bursary is given by the Toronto Alumni Chapter of The Alpha Omega Fraternity as a memorial to deceased members, and supersedes the earlier Julius J. Levine Memorial Bursary. To be eligible, a student must be registered in Third Year with satisfactory academic standing and must demonstrate financial need. The minimum value of the bursary is \$200. The first award was made in 1969/70.

#### **John Flewelling West Bursary**

(Any D.D.S. Year)  
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 DDS 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 30<sup>th</sup>. Enquiries: please call (416) 978-8227 or (416) 978-7960.

## **Loan Funds**

#### **W. K. Kellogg Loan Fund**

Because of the very generous gifts received from the W. K. Kellogg Foundation, Battle Creek, Michigan, funds were placed at the disposal of the Faculty of Dentistry for disbursement as loans to undergraduate

students in dentistry to aid in defraying tuition fees and the purchase of books, supplies and equipment. Application should be made to the Faculty Registrar.

#### **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 either O.S.A.P. or U.T.A.P.S.)* 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 Admissions and Awards. 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,

Financial Aid.

### **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.

## **University of Toronto Advance Planning for Students (U.T.A.P.S.)**

UTAPS is a program through which the University can determine the amount of need that OSAP will assess, and the amount of OSAP loan to which a student is entitled. For students whose need exceeds the maximum OSAP loan, part of the difference will be made up through a non-repayable grant. Please contact Enrolment Services, Financial Aid, 172 St. George Street, University of Toronto, for further information.

## **Professional Lines 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 2012–2013

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](http://www.fees.utoronto.ca).

### Doctor of Dental Surgery

#### First Year

Academic fee	30,763.00
Non-academic incidental fees	1,135.00
Dental Instruments*	6,596.00
<b>Total fee payable</b>	<b>38,494.00</b>

#### Second Year

Academic fee	29,624.00
Non-academic incidental fees	1,135.00
Dental Instruments*	6,670.00
<b>Total fee payable</b>	<b>37,429.00</b>

#### Third Year

Academic fee	28,527.00
Non-academic incidental fees	1,135.00
Dental Instruments*	4,090.00
<b>Total fee payable</b>	<b>33,752.00</b>

#### Fourth Year

Academic fee	27,470.00
Non-academic incidental fees	1,135.00
Dental Instruments*	2,860.00
<b>Total fee payable</b>	<b>31,465.00</b>

\* 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 for international students regardless of the year of study is \$58,710.00. A fee of \$1,135.00 is charged for non-academic incidental fees along with the corresponding fee for Dental Instruments. The University Health Insurance premium of \$684.00 is also charged to international students.

### International Dentist Advanced Placement Program in Dentistry (2012)

Academic fee*	36,398.00
Non-academic incidental fees*	423.00
Dental instruments**	8,126.00
<b>Total fee payable</b>	<b>44,947.00</b>

\* estimated for 2013 based on 2012 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 \$550.00

**Special students** - The fees are based on academic activity—the registration fee is \$350 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 November.

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](http://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.

# 8 Academic Rules and Regulations

## General Regulations

### Dress and Decorum

Professionalism is the standard of attitude, behaviour, 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 Director of the Division of Graduate and Postgraduate Dental 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**

Official transcripts of a student's academic record will be issued only at the student's written request. A fee of \$10.00 for each copy, payable in advance, is charged for all transcripts going outside the University of Toronto. Official transcripts of their records are not issued to students themselves.

### **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 and Postgraduate Studies.

## **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 behaviour, 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 Faculty Council 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 voting members who are either faculty members or students, and a non-voting Chair. The Committee must include at least 2 students and at least 3 members must be members of Faculty Council.
  - (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/ Postgraduate Studies.

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 of Graduate/Postgraduate Studies. This form must be completed and delivered to the Associate Dean of Graduate/Postgraduate Studies 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/Postgraduate Studies regarding the merits of the appeal. The Associate Dean of Graduate/Postgraduate Studies will then render the Department-level appeal decision.

The student may appeal the decision of the Associate Dean of Graduate/Postgraduate Studies 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/ Postgraduate Studies. This policy appears in the SGS General Regulations section of the 2011-12 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

[http://www.governingcouncil.utoronto.ca/policies/Guidelines\\_Concerning\\_Access\\_to\\_Official\\_Student\\_Academic\\_Records.htm](http://www.governingcouncil.utoronto.ca/policies/Guidelines_Concerning_Access_to_Official_Student_Academic_Records.htm)

Code of Behaviour on Academic Matters

<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>

Code of Student Conduct

<http://www.governingcouncil.utoronto.ca/policies/studentc.htm>

Standards of Professional Practice Behaviour for all Health Professional Students

<http://www.governingcouncil.utoronto.ca/policies/ProBehaviourHealthProStu.htm>

Grading Practices Policy

<http://www.governingcouncil.utoronto.ca/policies/grading.htm>

Policy on Official Correspondence with Students

<http://www.governingcouncil.utoronto.ca/policies/studentemail.htm>

Policy on Academic Sanctions for students who have Outstanding University Obligations

<http://www.governingcouncil.utoronto.ca/policies/sanction.htm>

Provosts Memorandum on Conflict of Interest and Close Personal Relations

<http://www.provost.utoronto.ca/policy/relations.htm>

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

<http://life.utoronto.ca/get-help/rights-responsibilities.htm>

## Summary of Faculty Registration 2011-2012

### Doctor of Dental Surgery

First Year	64
Second Year	65
Third Year	93
Fourth Year	94

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Total D.D.S. 316

### International Dentist

Advanced Placement Program 28

Graduate Students 133

### Residencies in

General Dentistry 13

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## NOTES

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