This PDF excerpt of Programs, Courses and University Regulations is an archived snapshot of the web content on the date that appears in the footer of the PDF. Archival copies are available at www.mcgill.ca/study.

This publication provides guidance to prospects, applicants, students, faculty and staff.

1. McGill University reserves the right to make changes to the information contained in this online publication - including correcting errors, altering fees, schedules of admission, and credit requirements, and revising or cancelling particular courses or programs - without prior notice.

2. In the interpretation of academic regulations, the Senate is the final authority.

3. Students are responsible for informing themselves of the University's procedures, policies and regulations, and the specific requirements associated with the degree, diploma, or certificate sought.

4. All students registered at McGill University are considered to have agreed to act in accordance with the University procedures, policies and regulations.

5. Although advice is readily available on request, the responsibility of selecting the appropriate courses for graduation must ultimately rest with the student.

6. Not all courses are offered every year and changes can be made after publication. Always check the Minerva Class Schedule link at https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched for the most up-to-date information on whether a course is offered.

7. The academic publication year begins at the start of the Fall semester and extends through to the end of the Winter semester of any given year. Students who begin study at any point within this period are governed by the regulations in the publication which came into effect at the start of the Fall semester.

8. Notwithstanding any other provision of the publication, it is expressly understood by all students that McGill University accepts no responsibility to provide any course of instruction, program or class, residential or other services including the normal range of academic, residential and/or other services in circumstances of utility interruptions, fire, flood, strikes, work stoppages, labour disputes, war, insurrection, the operation of law or acts of God or any other cause (whether similar or dissimilar to those enumerated) which reasonably prevent their provision.

Note: Throughout this publication, "you" refers to students newly admitted, readmitted or returning to McGill.
Publication Information

Published by

Enrolment Services
McGill University
3415 McTavish Street
Montreal, Quebec, H3A 0C8
Canada

All contents copyright © 2020 by McGill University. All rights reserved, including the right to reproduce this publication, or portions thereof, in any form.

McGill University reserves the right to make changes to the information contained in this publication - including correcting errors, altering fees, schedules of admission and credit requirements, and revising or cancelling particular courses or programs - without prior notification.

Not all courses are offered every year and changes can be made after publication. Always check the Minerva Class Schedule link at https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched for the most up-to-date information on whether a course is offered.
1  Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

2  Graduate and Postdoctoral Studies

2.1  Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Lorraine Chalifour; B.Sc., Ph.D.(Manit.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

2.2  Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

**Note:** For inquiries regarding specific graduate programs, please contact the appropriate department.

2.3  Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university in close collaboration with the academic and administrative units, and the graduate and postdoctoral community.

3  Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.
4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > : Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > : Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > : Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > : Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Postdoctoral Research section of this publication contains important details postdoctoral scholars will require during their studies at McGill and should be periodically consulted, along with other sections and related publications.

8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).
8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at mcgill.ca/gps/postdocs), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. Definition and Status

i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A : leave of absence for parental or health reasons may extend the eligibility period. Leaves for other reasons, including vacation, do not impact the eligibility period.

ii. Some McGill postdocs have dual status as both students and employees (unionized or non-unionized). Consult the Graduate and Postdoctoral Studies website for definitions of Postdoctoral Fellows, Postdoctoral Scholars and Postdoctoral Researchers.

iii. Postdocs must conduct research under the supervision of a McGill professor (including Adjunct Professors), qualified in the discipline in which training is being provided and with the ability to fulfill supervisory responsibilities and act as a mentor for career development. Postdocs are expected to engage primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must register annually with the University through Enrolment Services. Registration will be limited to postdocs who fulfill the definition above, and who meet the eligibility criteria as stipulated on the Graduate and Postdoctoral Studies website.

ii. Upon registration, postdocs will be eligible for a University identity card issued by Enrolment Services.

iii. Leaves of absence must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > : Leave of Absence Status).

3. Appointment, Funding, Letter of Agreement

i. Postdoctoral appointments may not exceed the registration eligibility period as defined above.

ii. In order to be registered, the postdoc must be assured of financial support other than from personal means during their stay at McGill University. This amount must be equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies or the collective agreement, as applicable. Funding during parental leave is subject to the conditions of the funding agency or the collective agreement, as applicable.

iii. Postdocs require a Letter of Agreement for Postdoctoral Education signed by the postdoc, the supervisor, and the department/unit head or delegate.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their postdoctoral funding as course lecturers. This applies to all postdocs, except those for whom teaching is part of the award.

v. The amount of research, teaching, or other tasks that postdocs engage in over and above postdoctoral activities should conform to the regulations for postdocs specified by the Canadian research council of their discipline or the collective agreement. This applies to all postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a general rule, postdocs may take courses for credit as Special Students following the admissions procedures outlined at www.mcgill.ca/gradapplicants/apply/prepare/visiting. Tuition and other charges will apply.

iv. Postdocs may be listed in the McGill directory.

v. Access to sports facilities may be purchased on a monthly basis through McGill Athletics and Recreation.

vi. Postdoctoral Fellows and Scholars are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged.

vii. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

viii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies, and Teaching and Learning services. These sessions are usually free of charge.

ix. Postdocs have access to the services provided by the Ombudsperson.

x. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

xi. Access to student services is granted to non-unionized postdocs, who are charged the Student Services fee in the Fall and Winter terms, through their student fee accounts.

5. Responsibilities
i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting postdocs should clearly identify postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting postdocs.

iv. Some examples of the responsibilities of the academic unit are:

- to verify the postdoc’s eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
- to include postdocs in departmental career and placement opportunities;
- to refer postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a postdoc and a supervisor.

v. Some examples of the responsibilities of the supervisor are:

- to uphold and transmit to their postdocs the highest professional standards of research and/or scholarship;
- to provide research guidance;
- to meet regularly with their postdocs;
- to provide feedback on research submitted by the postdocs;
- to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
- to provide mentorship for career development;
- to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of the responsibilities of postdocs are:

- to inform themselves of and adhere to the University’s policies and/or regulations for postdocs as outlined at www.mcgill.ca/gps/postdocs, www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
- to submit a complete file for registration to Enrolment Services;
- to sign and adhere to their Letter of Agreement for Postdoctoral Education;
- to communicate regularly with their supervisor;
- to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

- to register postdocs;
- to provide an appeal mechanism in cases of conflict;
- to provide documented policies and procedures to postdocs;
- to provide postdocs with the necessary information on McGill University student services (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > : Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > : Leave of Absence Status.
Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

8.5 Postdoctoral Research Trainees

Eligibility
If your situation does not conform to the Government of Quebec’s definition of a Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. This individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Application must be accompanied by a letter of permission from the applicant's home institution (signed by the Department Chair, Dean, or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions
- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diplomas
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > Guidelines and Policies for information on the following:
- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work
10 Graduate Student Services and Information

Graduate students are encouraged to refer to Student Services and Information for information on the following topics:

- Service Point
- Student Rights & Responsibilities
- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

11 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > Research Policy and Guidelines for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2020–2021 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

12.1 Dentistry

12.1.1 Location

Faculty of Dentistry
2001 McGill College Avenue, Suite 500
Montreal QC H3A 1G1
Canada
Telephone: 514-398-7203
Fax: 514-398-8900
Website: www.mcgill.ca/dentistry
12.1.2 About Dentistry

Master of Science (M.Sc) Dental Sciences (Thesis)

The goal of this program is to train students in research in the dental sciences, which comprise a number of disciplines relating to the functioning of the oro-facial complex.

For the Thesis Master’s in Dental Sciences, we aim to train students to:

1. perform a literature review;
2. identify important issues in a specific field and understand the scientific approach to research questions;
3. carry out a scientific study and appropriately manage its data;
4. appreciate the ethics involved in animal and/or human research; and
5. express themselves clearly when speaking and writing about science.

Section 12.1.6: Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

This Non-Thesis M.Sc. program offers students the possibility to supplement their existing education by exploring a variety of research topics. Students are able to "sample" various research areas without committing to a specific research topic or project by entering either the Basic Science stream or the Clinical and Populational Health stream. All non-thesis students are encouraged to seek volunteer and summer research opportunities with researchers in the Faculty to further their research experience.

This program offers students a great opportunity to clarify their interests, connect with faculty members, and engage with their cutting-edge research programs to seek additional career and training options (such as entering a Ph.D. program). This non-thesis option is not a residency program and does not provide clinical qualifications.

12.1.3 Dentistry Admission Requirements and Application Procedures

12.1.3.1 Admission Requirements

M.Sc. in Dental Sciences

Students who have completed a D.M.D./D.D.S. or a B.Sc. in one of the Health Science disciplines listed on our website with a CGPA of 3.0 on a 4.0 scale are eligible to apply for admission to a graduate program in the Faculty of Dentistry leading to the M.Sc. degree in Dental Sciences. TOEFL (or IELTS) test results are required for applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized Canadian institution (anglophone or francophone) or from a recognized foreign institution where English is the language of instruction.

The number of candidates accepted each year will depend on the elective courses and research facilities available that are applicable to the candidate's area of expertise.

Bachelor’s students who have not obtained eligible qualifications will be required to make up for deficiencies in their academic profile by taking a Qualifying year.

12.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > : Application Procedures for detailed application procedures.

12.1.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Faculty of Dentistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>M.Sc. in Dental Sciences (Thesis)</th>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>May 1</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
<td>Sept. 10</td>
</tr>
</tbody>
</table>
### M.Sc. in Dental Sciences (Thesis)

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Term:</td>
<td></td>
</tr>
<tr>
<td>May 15</td>
<td>Apr. 1</td>
</tr>
<tr>
<td>Jan. 15</td>
<td>Apr. 1</td>
</tr>
</tbody>
</table>

### M.Sc. in Dental Sciences (Non-Thesis)

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</th>
<th>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</th>
<th>Current McGill Students (any citizenship)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 12.1.4 Dentistry Faculty

**Dean, Faculty of Dentistry**

E. Emami

**Associate Dean, Undergraduate Dental Education**

S. Abi-Nader

**Assistant Dean, Undergraduate Dental Education**

P. Chauvin

**Undergraduate Clinic Director**

N. Morin

**Associate Dean, Research and Graduate Dental Education**

F. Tamimi (sabbatical); S. Komarova (Interim Associate Dean)

**Assistant Dean, Research and Graduate Dental Education**

B. Nicolau

**Graduate Program Director**

S. Tran

**Associate Dean, Postgraduate Dental Education**

N. Makhoul

**Emeritus Professors**

K.C. Bentley

F. Cervero

M. Gornitsky

**Professors**

P.J. Allison

J.E. Barralet
Professors
L. Diatchenko
J.S. Feine
M.D. McKee
D. Reinhardt
M. Tabrizian
S. Tran

Associate Professors
S. Abi-Nader
C. Bedos
V. Benhamou Cohen
P.J. Chauvin
A. Chehade
E. Emami
R. Freitas de Souza
I.M. Fried
G.J. Harasymowycz
R. Hovey
A. Ianella
M.T. Kaartinen
S. Komarova
M.E. MacDonald
N. Makhoul
S.I. Miller
F.I. Muroff
M. Murshed
J.M. Myers
B. Nicolau
J.R. Pompura
E. Raviv
M. Schwartz
F. Tamimi
A.M. Velly
J. Zhang

Assistant Professors

Faculty Lecturers
Faculty Lecturers


Adjunct Professors


Associate Members

E.L. Franco

12.1.5  Master of Science (M.Sc.) Dental Sciences (Thesis) (45 credits)

Thesis Courses (24-33 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 650</td>
<td>(3)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>DENT 651</td>
<td>(6)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>DENT 652</td>
<td>(9)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>DENT 653</td>
<td>(15)</td>
<td>Thesis Research 4</td>
</tr>
</tbody>
</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 505</td>
<td>()</td>
<td>Epidemiology and Data Analysis in Primary Care 1</td>
</tr>
<tr>
<td>DENT 663</td>
<td>(1)</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>DENT 671D1</td>
<td>(1)</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>DENT 671D2</td>
<td>(1)</td>
<td>Advanced Research Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (6-15 credits)

6-15 credits chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 663D1</td>
<td>(3)</td>
<td>Histology</td>
</tr>
<tr>
<td>ANAT 663D2</td>
<td>(3)</td>
<td>Histology</td>
</tr>
<tr>
<td>DENT 504</td>
<td>(3)</td>
<td>Biomaterials and Bioperformance</td>
</tr>
<tr>
<td>DENT 509</td>
<td>()</td>
<td>Epidemiology and Data Analysis in Primary Care 2</td>
</tr>
<tr>
<td>DENT 610</td>
<td>()</td>
<td>Introduction to Craniofacial Research</td>
</tr>
<tr>
<td>DENT 654</td>
<td>(3)</td>
<td>Mechanisms and Management of Pain</td>
</tr>
<tr>
<td>DENT 655</td>
<td>(3)</td>
<td>Health Technology Assessment</td>
</tr>
<tr>
<td>DENT 664</td>
<td>(1)</td>
<td>Introduction to Research Communication</td>
</tr>
<tr>
<td>DENT 665</td>
<td>(1)</td>
<td>Leadership and Management Skills in Research</td>
</tr>
<tr>
<td>DENT 672</td>
<td>(3)</td>
<td>Applied Mixed Methods in Health Research</td>
</tr>
<tr>
<td>DENT 679</td>
<td>()</td>
<td>Epidemiology and Data Analysis in Primary Care 3</td>
</tr>
<tr>
<td>DENT 681</td>
<td>(1)</td>
<td>Readings in Dentistry and Health Research 1</td>
</tr>
<tr>
<td>DENT 682</td>
<td>(2)</td>
<td>Readings in Dentistry and Health Research 2</td>
</tr>
</tbody>
</table>
Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

### 12.1.6 Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

The M.Sc. degree should normally be completed within two years of full-time study.

#### Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 505</td>
<td>3</td>
<td>Epidemiology and Data Analysis in Primary Care 1</td>
</tr>
<tr>
<td>DENT 655</td>
<td>3</td>
<td>Health Technology Assessment</td>
</tr>
<tr>
<td>DENT 663</td>
<td>1</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>DENT 670</td>
<td>6</td>
<td>Dentistry Stage</td>
</tr>
<tr>
<td>DENT 671D1</td>
<td>1</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>DENT 671D2</td>
<td>1</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>EPIB 600*</td>
<td>3</td>
<td>Clinical Epidemiology</td>
</tr>
</tbody>
</table>

* or equivalent

#### Complementary Courses (27 credits)

27 credits from Stream 1 OR Stream 2:

**Stream 1: Basic Science**

24 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 663D1</td>
<td>3</td>
<td>Histology</td>
</tr>
<tr>
<td>ANAT 663D2</td>
<td>3</td>
<td>Histology</td>
</tr>
<tr>
<td>ANAT 690D1</td>
<td>3</td>
<td>Cell and Developmental Biology</td>
</tr>
<tr>
<td>ANAT 690D2</td>
<td>3</td>
<td>Cell and Developmental Biology</td>
</tr>
<tr>
<td>BMDE 505</td>
<td>3</td>
<td>Cell and Tissue Engineering</td>
</tr>
<tr>
<td>DENT 504</td>
<td>3</td>
<td>Biomaterials and Bioprocesses</td>
</tr>
<tr>
<td>DENT 509</td>
<td>3</td>
<td>Epidemiology and Data Analysis in Primary Care 2</td>
</tr>
<tr>
<td>DENT 654</td>
<td>3</td>
<td>Mechanisms and Management of Pain</td>
</tr>
<tr>
<td>DENT 664</td>
<td>1</td>
<td>Introduction to Research Communication</td>
</tr>
<tr>
<td>DENT 665</td>
<td>1</td>
<td>Leadership and Management Skills in Research</td>
</tr>
<tr>
<td>DENT 669</td>
<td>3</td>
<td>Extracellular Matrix Biology</td>
</tr>
<tr>
<td>DENT 673</td>
<td>3</td>
<td>Biotechnology and Entrepreneurship</td>
</tr>
<tr>
<td>DENT 681</td>
<td>1</td>
<td>Readings in Dentistry and Health Research 1</td>
</tr>
<tr>
<td>DENT 682</td>
<td>2</td>
<td>Readings in Dentistry and Health Research 2</td>
</tr>
<tr>
<td>DENT 683</td>
<td>3</td>
<td>Readings in Dentistry and Health Research 3</td>
</tr>
<tr>
<td>PHGY 517</td>
<td>3</td>
<td>Artificial Internal Organs</td>
</tr>
<tr>
<td>PHGY 518</td>
<td>3</td>
<td>Artificial Cells</td>
</tr>
<tr>
<td>PHGY 550</td>
<td>3</td>
<td>Molecular Physiology of Bone</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>EXMD 609</td>
<td>3</td>
<td>Cellular Methods in Medical Research</td>
</tr>
<tr>
<td>EXMD 610</td>
<td>3</td>
<td>Molecular Methods in Medical Research</td>
</tr>
</tbody>
</table>

**Stream 2: Clinical and Populational Health**

24 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 509</td>
<td>3</td>
<td>Epidemiology and Data Analysis in Primary Care 2</td>
</tr>
<tr>
<td>DENT 664</td>
<td>1</td>
<td>Introduction to Research Communication</td>
</tr>
<tr>
<td>DENT 665</td>
<td>1</td>
<td>Leadership and Management Skills in Research</td>
</tr>
<tr>
<td>DENT 672</td>
<td>3</td>
<td>Applied Mixed Methods in Health Research</td>
</tr>
<tr>
<td>DENT 681</td>
<td>1</td>
<td>Readings in Dentistry and Health Research 1</td>
</tr>
<tr>
<td>DENT 682</td>
<td>2</td>
<td>Readings in Dentistry and Health Research 2</td>
</tr>
<tr>
<td>DENT 683</td>
<td>3</td>
<td>Readings in Dentistry and Health Research 3</td>
</tr>
<tr>
<td>EDEM 692</td>
<td>3</td>
<td>Qualitative Research Methods</td>
</tr>
<tr>
<td>EPIB 635</td>
<td>3</td>
<td>Clinical Trials</td>
</tr>
<tr>
<td>EPIB 641</td>
<td>1</td>
<td>Substantive Epidemiology 1</td>
</tr>
<tr>
<td>EPIB 660</td>
<td>3</td>
<td>Practical Aspects: Protocol Development</td>
</tr>
<tr>
<td>EPIB 669</td>
<td>2</td>
<td>Special Topics 2</td>
</tr>
<tr>
<td>EPIB 671</td>
<td>3</td>
<td>Cancer Epidemiology and Prevention</td>
</tr>
<tr>
<td>EPIB 677</td>
<td>3</td>
<td>Special Topics 8</td>
</tr>
<tr>
<td>EPIB 679</td>
<td>3</td>
<td>Special Topics 10</td>
</tr>
</tbody>
</table>

3 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 685</td>
<td>3</td>
<td>Theory of Dental Public Health</td>
</tr>
</tbody>
</table>

Other complementary 500- or 600-level courses at the University may be taken with the approval of the director of the program and GPS.