Graduate and Postdoctoral Studies

Programs, Courses and University Regulations

2012-2013

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 mak

1 University Regulations and Resources, page 51

2 Regulations, page 51

2.1 Categories of Students, page 51

2.1.1 Full-Time Students, page 51

2.1.2 Half-Time Students (Thesis Programs), page 51

2.1.3 Part-Time Students, page 51

2.1.4 Additional Session (Thesis Programs) and Non-Thesis Extension (Non-Thesis Programs) Students, page 51

2.1.5 Thesis Evaluation Students, page 52

2.1.6 Qualifying Students, page 52

2.1.7 Special Students, page 52

2.1.8 Visiting Students, page 52

2.1.9 Graduate Research Trainee, page 52

2.1.10 Non-Resident Status, page 53

2.1.11 Leave of Absence Status, page 53

2.1.12 Medical Residents, page 54

2.1.13 McGill Staff as Graduate Students, page 54

2.1.14 Quebec Inter-University Transfer Agreement: McGill Students, page 54

2.1.15 Quebec Inter-University Transfer Agreement: Visiting IUT Students, page 55

2.2 Registration, page 55

2.2.1 Registration for Fall and Winter Terms (Including Additional Session and Non-Thesis Extension Students), page 55

2.2.2 Fee Policies Related to Registration, page 55

2.2.3 Summer Registration, page 56

2.2.4 Courses Taken in the School of Continuing Studies, page 56

2.2.5 Courses Taken as Extra to a Program, page 56

2.2.6 Registration for Two Degree Programs Concurrently, page 57

2.2.7 Time Limitation, page 57

2.2.8 Withdrawal from a Degree Program, page 57

2.2.9 Late Registration, page 57

2.3 Course Information and Regulations, page 58

2.3.1 Course Information and Regulations: Class Schedule, page 58

2.3.2 Course Numbering, page 58

2.3.3 Multi-term Courses, page 58

2.3.4 Course Terminology, page 59

2.3.4.1 Course Nomenclature in Program Descriptions, page 59

2.4 Summer Studies, page 59

2.5 Course Change Period, page 60

2.6 Auditing of Courses, page 60

2.7 Regulations Concerning Course Withdrawal, page 60

2.7.1 Courses that Begin in the Fall Term , page 60

2.7.2 Courses that Begin in the Winter Term, page 60

2.28 Legal Documents: Has McGill Received Your Documents?, page 73
2.28.1 Quebec/Canadian/International Fees, page 73
2.28.2 Permanent Code, page 73
2.29 Legal Documents: What Are the Consequences of Not Providing Your Documents?, page 73
2.30 Legal Documents: Where Do I Send My Documents?, page 73
2.30.1 For the School of Continuing Studies, page 74
2.31 Identification (ID) Cards, page 74
2.31.1 ID Card Schedule for the Downtown Campus:, page 75
2.31.2 ID Card Schedule for the Macdonald Campus:, page 75
2.32 Name: Legal Name, page 75
2.33 Name: Preferred First Name, page 76
2.34 Name: Verification of Name, page 76
2.35 Email Communication, page 76
2.36 Updating Personal Information, page 76
2.37 Authorization, Acknowledgement, and Consent, page 77
2.38 Proper Use of Computing Facilities, page 77
2.39 Non-Smoking Policy, page 77
2.40 Health Professions – Immunization Requirement, page 77
2.41 Health Insurance – International Students, page 77
2.42 Health Insurance – Canadian Residents, page 77
2.43 Special Medical Needs, page 78
2.44 Minerva, page 78
2.45 myMcGill, page 78
2.46 Service Point, page 79
3 Guidelines and Policies, page 80
3.1 Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision, page 80
3.2 Policy on Graduate Student Research Progress Tracking, page 81
3.3 Ph.D. Comprehensives Policy, page 82
3.4 Graduate Studies Reread Policy, page 84
3.5 Health and Parental/Familial Leave of Absence Policy, page 85
3.6 Failure Policy, page 85
3.7 Guideline on Hours of Work, page 85
4 Research Policy and Guidelines,321 218.t1.511 79.943 189.9(G Resesestdocs, 2 Tm(Y)Tj1 0 0 19 79.943 189.9AssoTmtes, 2 Tm(Y)Tj1 0 041 179.943 189.962 Tm

6.4.3 Student Society Fees, page 95
6.5 Administrative Charges, page 95
6.6 Other Fees, page 96
6.7 Billings and Due Dates, page 98
6.7.1 Billings and Due Dates: Guest

16.11.8.4 Parasitology Faculty, page 178
16.11.8.5 Master of Science (M.Sc.); Parasitology (Thesis) (46 credits) , page 178
16.11.8.6 Master of Science (M.Sc.); Parasitology (Thesis) — Bioinformatics (47 credits) , page 178
16.11.8.7 Master of Science (M.Sc.); Parasitology (Thesis) — Environment (46 credits) , page 179
16.11.8.8 Doctor of Philosophy (Ph.D.); Parasitology , page 180
16.11.8.9 Doctor of Philosophy (Ph.D.); Parasitology — Bioinformatics , page 180
16.11.8.10 Doctor of Philosophy (Ph.D.); Parasitology — Environment , page 181
16.11.9 Plant Science, page 181
16.11.9.1 Location, page 181
16.11.9.2 About Plant Science, page 182
16.11.9.3 Plant Science Admission Requirements and Application Procedures, page 183
16.11.9.4 Plant Science Faculty, page 184
16.11.9.5 Master of Science (M.Sc.); Plant Science (Thesis) (45 credits) , page 184
16.11.9.6 Master of Science (M.Sc.); Plant Science (Thesis) — Bioinformatics (48 credits) , page 185
16.11.9.7 Master of Science (M.Sc.); Plant Science (Thesis) — Environment (48 credits) , page 185
16.11.9.8 Master of Science (M.Sc.); Plant Science (Thesis) — Neotropical Environment (48 credits) , page 186
16.11.9.9 Master of Science, Applied (M.Sc.A.); Plant Science (Non-Thesis) (45 credits) , page 187
16.11.9.10 Doctor of Philosophy (Ph.D.); Plant Science , page 187
16.11.9.11 Doctor of Philosophy (Ph.D.); Plant Science — Bioinformatics , page 187
16.11.9.12 Doctor of Philosophy (Ph.D.); Plant Science — Environment , page 188
16.11.9.13 Doctor of Philosophy (Ph.D.); Plant Science — Neotropical Environment , page 188
16.11.9.14 Graduate Certificate in Bioinformatics (15 credits) , page 189
17 Faculty of Arts, page 189
17.1 Dean's Welcome, page 189
17.2 Graduate and Postdoctoral Studies, page 190
17.2.1 Administrative Officers, page 190
17.2.2 Location, page 190
17.2.3

17.11.7.4 English Faculty, page 240
17.11.7.5 Master of Arts (M.A.); English (Thesis) (48 credits) , page 241
17.11.7.6 Master of Arts (M.A.); English (Non-Thesis) (48 credits) , page 242
17.11.7.7 Doctor of Philosophy (Ph.D.); English , page 242
17.11.8 French Language and Literature, page 242
17.11.8.1 Coordonnées, page 242
17.11.8.2 Généralités : Langue et littérature françaises, page 243
17.11.8.3 French Language and Literature Admission Requirements and Application Procedures, page 244
17.11.8.4 French Language and Literature Faculty, page 245
17.11.8.5 Master of Arts (M.A.); Langue et littérature françaises (avec mémoire) (48 crédits) , page 246
17.11.8.6 Master of Arts (M.A.); Langue et littérature françaises (avec mémoire) — études sur les femmes et le genre (48 credits) , page 246
17.11.8.7 Master of Arts (M.A.); Langue et littérature françaises (sans mémoire) (48 crédits) , page 247
17.11.8.8 Doctor of Philosophy (Ph.D.); Langue et littérature françaises , page 247
17.11.8.9 Doctor of Philosophy (Ph.D.); Langue et littérature françaises — études sur les femmes et le genre , page 248
17.11.9 Geography, page 248
17.11.9.1 Location, page 248
17.11.9.2 About Geography, page 248
17.11.9.3 Geography Admission Requirements and Application Procedures, page 251
17.11.9.4 Geography Faculty, page 251
17.11.9.5 Master of Arts (M.A.); Geography (Thesis) (45 credits) , page 253
17.11.9.6 Master of Arts (M.A.); Geography (Thesis) — Environment (45 credits) , page 253
17.11.9.7 Master of Arts (M.A.); Geography (Thesis) — Neotropical Environment (45 credits) , page 253
17.11.9.8 Master of Arts (M.A.); Geography (Thesis) — Development Studies (45 credits) , page 254
17.11.9.9 Master of Arts (M.A.); Geography (Thesis) — Gender and Women's Studies (45 credits) , page 254
17.11.9.10 Master of Arts (M.A.); Geography (Thesis) — Social Statistics (45 credits) , page 255
17.11.9.11 Doctor of Philosophy (Ph.D.); Geography , page 255
17.11.9.12 Doctor of Philosophy (Ph.D.); Geography — Environment , page 256
17.11.9.13 Doctor of Philosophy (Ph.D.); Geography — Gender and Women's Studies , page 256
17.11.9.14 Doctor of Philosophy (Ph.D.); Geography — Neotropical Environment , page 257
17.11.10 History and Classical Studies, page 257
17.11.10.1 Location, page 257
17.11.10.2 About History and Classical Studies, page 258
17.11.10.3 History and Classical Studies Admission Requirements and Application Procedures, page 259
17.11.10.4 History and Classical Studies Faculty, page 260
17.11.10.5 Master of Arts (M.A.); History (Thesis) (45 credits) , page 262
17.11.10.6 Master of Arts (M.A.); History (Thesis) — Development Studies (45 credits) , page 262
17.11.10.7 Master of Arts (M.A.); History (Thesis) — European Studies (45 credits) , page 263
17.11.10.8 Master of Arts (M.A.); History (Thesis) — Gender and W273.452 Tm(y (Ph.D.); Geograph)Tj1 0 0 1 page

17.11.23.7 Master of Arts (M.A.); Sociology (Thesis) — Environment (48 credits) , page 337
17.11.23.8 Master of Arts (M.A.); Sociology (Thesis) — Gender and Women's Studies (48 credits) , page 338
17.11.23.9 Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (48 credits) , page 338
17.11.23.10 Master of Arts (M.A.); Sociology (Thesis) — Neotropical Environment (48 credits) , page 339
17.11.23.11 Master of Arts (M.A.); Sociology (Non-Thesis) (45 credits) , page 340
17.11.23.12 Master of Arts (M.A.); Sociology (Non-Thesis) — Development Studies (45 credits) , page 340
17.11.23.13 Master of Arts (M.A.); Sociology (Non-Thesis) — Gender and Women's Studies (45 credits) , page 341
17.11.23.14 Master of Arts (M.A.); Sociology (Non-Thesis) — Medical Sociology (45 credits) , page 342
17.11.23.15 Master of Arts (M.A.); Sociology (Non-Thesis) — Social Statistics (45 credits) , page 342
17.11.23.16 Doctor of Phil001ss4.522 590.942 Tm1of

19.5.1 Master's Degrees, page 385
19.5.2 Doctoral Degrees, page 386
19.5.3 Ad Personam Programs (Thesis Option Only), page 387
19.5.4 Coursework for Graduate Programs, Diplomas, and Certificates, page 387
19.6 Graduate Admissions and Application Procedures, page 388
19.6.1 Application for Admission, page 388
19.6.2 Admission Requirements (minimum requirements to be considered for admission), page 388
19.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 389
19.6.3.1 Document Checklist Terms, page 389
19.6.4 Admission Test9942 Tm(page)88

19.12.11.2 Application Procedures, page 428

19.12.11.3 Dates for Guaranteed Consideration, page 428

19.12.11.4 Executive Master of Business Administration (E.M.B.A.); Joint Executive M.B.A. (Non-Thesis) (45 credits) , page 428

19.13 Master of Management Programs Admission Requirements and Application Procedures, page 429

19.13.1 Admission Requirements, page 429

19.13.2 Application Procedures, page 429

19.13.3 Dates for Guaranteed Consideration, page 429

19.13.4 Master of Management (M.M.M.); Manufacturing Management (Non-Thesis) (57 credits) , page 430

19.13.5 Master of Management (M.M.); IMPM (Non-Thesis) (45 credits) , page 431

19.13.6 Master of Management (M.M.); IMPMHL (Non-Thesis) (45 credits) , page 431

19.14 Joint Ph.D. in Management Admission Requirements and Application Procedures, page 431

19.14.1 Admission Requirements, page 433

19.14.2 Application Procedures, page 433

19.14.2.1 Additional Requirements, page 433

19.14.3 Dates for Guaranteed Consideration, page 434

19.14.4 Doctor of Philosophy (Ph.D.); Management , page 434

19.15

20.4.3 Master's Degree Programs and Specializations, page 445
20.4.4 Doctoral Degrees, page 450
20.4.4.1 Doctoral Degree Programs and Specializations, page 450
20.4.5 Postdoctoral Research, page 452
20.4.6 Graduate Diplomas and Graduate Certificates, page 453
20.5 Program Requirements, page 453
20.5.1 Master's Degrees, page 453
20.5.2 Doctoral Degrees, page 454
20.5.3 Ad Personam Programs (Thesis Option Only), page 455
20.5.4 Coursework for Graduate Programs, Diplomas, and Certificates, page 455
20.6 Graduate Admissions and Application Procedures, page 455
20.6.1 Application for Admission, page 456
20.6.2 Admission Requirements (minimum requirements to be considered for admission), page 456
20.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 456
20.6.3.1 Document Checklist Terms, page 457
20.6.4 Admission Tests, page 457
20.6.5 Competency in English, page 457
20.6.6 Admission to a Qualifying Program, page 458
20.6.7 Admission to a Second Degree Program, page 458
20.6.8 Admission to Two Degree Programs, page 458
20.6.9 Admission to an Ad Personam Joint Program, page 459
20.6.10 Reinstatement and Admission of Former Students, page 459
20.6.11 Deferral of Admission, page 459
20.7 Fellowships, Awards, and Assistantships, page 459
20.8 Postdoctoral Research, page 460
20.8.1 Postdocs, page 460
20.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education, page 460
20.8.3 Vacation Policy for Graduate Students and Postdocs, page 462
20.8.4 Leave of Absence for Health and Parental/Familial Reasons, page 462
20.8.5 Postdoctoral Research Trainees, page 462
20.9 Graduate Studies Guidelines and Policies, page 463
20.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees, page 463
20.11 Academic Programs, page 463
20.11.1 Educational and Counselling Psychology, page 463
20.11.1.1 Location, page 463
20.11.1.2 About Educational and Counselling Psychology, page 463
20.11.1.3 Educational and Counselling Psychology Admission Requirements and Application Procedures, page 468
20.11.1.4 Educational and Counselling Psychology Faculu ees and Polic

21.4.3 Master's Degree Programs and Specializations, page 533
21.4.4 Doctoral Degrees, page 537
21.4.4.1 Doctoral Degree Programs and Specializations, page 537
21.4.5 Postdoctoral Research, page 540
21.4.6 Graduate Diplomas and Graduate Certificates, page 540
21.5 Program Requirements, page 540
21.5.1 Master's Degrees, page 540
21.5.2

21.11.5 Mechanical Engineering, page 577
21.11.5.1 Location, page 577
21.11.5.2 About Mechanical Engineering, page 577
21.11.5.3 Mechanical Engineering Admission Requirements and Application Procedures, page 579
21.11.5.4 Mechanical Engineering Faculty, page 580
21.11.5.5 Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) (45 credits) , page 581
21.11.5.6 Master of Science (M.Sc.); Mechanical Engineering (Thesis) (45 credits) , page 582
21.11.5.7 Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) — Computational Science and Engineering (46 credits) , page 582
21.11.5.8 Master of Engineering (M.Eng.); Mechanical Engineering (Non-Thesis) (45 credits) , page 584
21.11.5.9 Master of Engineering (M.Eng.); Aerospace Engineering (Non-Thesis) (45 credits) , page 584
21.11.5.10 Master of Management (M.M.M.); Manufacturing Management (Non-Thesis) (57 credits) , page 584
21.11.5.11 Doctor of Philosophy (Ph.D.); Mechanical Engineering , page 586
21.11.6 Mining and Materials Engineering, page 586
21.11.6.1 Location, page 586
21.11.6.2 About Mining and Materials Engineering, page 586
21.11.6.3 Mining and Materials Engineering Admission Requirements and Application Procedures, page 587
21.11.6.4 Mining and Materials Engineering Faculty, page 588
21.11.6.5 Master of Engineering (M.Eng.); Mining and Materials Engineering (Thesis) (45 credits) , page 589
21.11.6.6 Master of Science (M.Sc.); Mining and Materials Engineering (Thesis) (45 credits) , page 589
21.11.6.7 Master of Engineering (M.Eng.); Mining and Materials Engineering (Non-Thesis) (45 credits) , page 590
21.11.6.8 Master of Engineering (M.Eng.); Mining and Materials Engineering (Non-Thesis) — Environmental Engineering (45 credits) , page 590
21.11.6.9 Doctor of Philosophy (Ph.D.); Mining and Materials Engineering , page 592
21.11.6.10 Graduate Diploma in Mining Engineering (30 credits) , page 592
21.11.7 Urban Planning, page 592
21.11.7.1 Location, page 592
21.11.7.2 About Urban Planning, page 592
21.11.7.3 Urban Planning Admission Requirements and Application Procedures, page 593
21.11.7.4 Urban Planning Faculty, page 594
21.11.7.5 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) (66 credits) , page 595
21.11.7.6 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Transportation Planning (66 credits) , page 596
21.11.7.7 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Urban Design (66 credits) , page 597
22 Faculty of Law, page 599
22.1 Dean's Welcome, page 599
22.2 Graduate and Postdoctoral Studies, page 599
22.2.1 Administrative Officers, page 599
22.2.2 Location, page 599
22.2.3 General Statement Concerning Higher Degrees, page 600

22.11.1.3 Law

23.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 652
23.6.3.1 Document Checklist Terms, page 653
23.6.4 Admission Tests, page 653
23.6.5 Competency in English, page 654
23.6.6 Admission to a Qualifying Program, page 654
23.6.7 Admission to a Second Degree Program, page 654
23.6.8 Admission to Two Degree Programs, page 654
23.6.9 Admission to an Ad Personam Joint Program, page 655
23.6.10 Reinstatement and Admission of Former Students, page 655
23.6.11 Deferral of Admission, page 655
23.7 Fellowships, Awards, and Assistantships, page 655
23.8 Postdoctoral Research, page 656
23.8.1 Postdocs, page 656
23.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education, page 656
23.8.3 Vacation Policy for Graduate Students and Postdocs, page 658
23.8.4 Leave of Absence for Health and Parental/Familial Reasons, page 658
23.8.5 Postdoctoral Research Trainees, page 658
23.9 Graduate Studies Guidelines and Policies, page 659
23.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees, page 659
23.11 Academic Programs, page 659
23.11.1 Environment, page 659
23.11.1.1 Location, page 659
23.11.1.2 About Environment, page 660
23.11.1.3 Environment Admission Requirements and Application Procedures, page 662
23.11.1.4 Environment Faculty, page 662
24 Faculty of Medicine, page 664
24.1 Dean's Welcome, page 664
24.2 Graduate and Postdoctoral Studies, page 664
24.2.1 Administrative Officers, page 664
24.2.2 Location,,

24.11.2.5

24.11.9.1 Location, page 726
24.11.9.2 About Human Genetics, page 726
24.11.9.3 Human Genetics Admission Requirements and Application Procedures, page 728
24.11.9.4 Human Genetics Faculty, page 729
24.11.9.5 Master of Science (M.Sc.); Human Genetics (Thesis) (45 credits) , page 731
24.11.9.6 Master of Science (M.Sc.); Human Genetics (Thesis) — Bioinformatics (45 credits) , page 732
24.11.9.7 Master of Science (M.Sc.); Human Genetics (Thesis) — Bioethics (45 credits) , page 732
24.11.9.8 Master of Science (M.Sc.); Genetic Counselling (Non-Thesis) (48 credits) , page 733
24.11.9.9 Doctor of Philosophy (Ph.D.); Human Genetics , page 733
24.11.9.10 Doctor of Philosophy (Ph.D.); Human Genetics — Bioinformatics , page 734
24.11.10 Medical Physics, page 734
24.11.10.1 Location, page 734
24.11.10.2 About Medical Physics, page 735
24.11.10.3 Medical Physics Admission Requirements and Application Procedures, page 735
24.11.10.4 Medical Physics Faculty, page 736
24.11.10.5 Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 credits) , page 736
24.11.11 Medicine, Experimental, page 737
24.11.11.1 Location, page 737
24.11.11.2 About Experimental Medicine, page 737
24.11.11.3 Medicine, Experimental Admission Requirements and Application Procedures, page 738
24.11.11.4 Medicine, Experimental Faculty, page 739
24.11.11.5 Master of Science (M.Sc.); Experimental Medicine (Thesis) (45 credits) , page 743
24.11.11.6 Master of Science (M.Sc.); Experimental Medicine (Thesis) — Bioethics (45 credits) , page 743
24.11.11.7 Master of Science (M.Sc.); Experimental Medicine (Thesis) — Environment (45 credits) , page 744
24.11.11.8 Master of Science (M.Sc.); Experimental Medicine (Thesis) — Family Medicine (45 credits) , page 744
24.11.11.9 Doctor of Philosophy (Ph.D.); Experimental Medicine , page 745
24.11.11.10 Doctor of Philosophy (Ph.D.); Experimental Medicine — Environment , page 745
24.11.11.11 Graduate Diploma in Clinical Research (30 credits) , page 746
24.11.12 Medicine, Family (Option), page 746
24.11.12.1 Location, page 746
24.11.12.2 About Family Medicine, page 746
24.11.12.3 Medicine, Family (Option) Admission Requirements and Application Procedures, page 747
24.11.12.4 Medicine, Family (Option) Faculty, page 748
24.11.13 Microbiology and Immunology, page 748
24.11.13.1 Location, page 748
24.11.13.2 About Microbiology and Immunology, page 749
24.11.13.3 Microbiology and Immunology Admission Requirements and Application Procedures, page 749
24.11.13.4 Microbiology and Immunology Faculty, page 750
24.11.13.5 Master of Science (M.Sc.); Microbiology and Immunology (Thesis) (45 credits) , page 751
24.11.13.6 Doctor of Philosophy (Ph.D.); Microbiology and Immunology , page 752

24.11.14 Neuroscience (Integrated Program in), page 752

24.11.14.1 Location, page 752

24.11.14.2 About the Integrated Program in Neuroscience, page 753

24.11.14.3 Neuroscience (Integrated Program in) Admission Requirements and Application Procedures, page 753

24.11.14.4 Neuroscience (Integrated Program in) Faculty, page 754

24.11.14.5 Master of Science (M.Sc.); Neuroscience (Thesis) (45 credits) 316.06 657.78

24.11.19.1 Location, page 779

24.11.19.2 About Physiology, page 779

24.11.19.3 Physiology Admission Requirements and Application Procedures, page 780

24.11.19.4 Physiology Faculty, page 780

24.11.19.5

26.2 Graduate and Postdoctoral Studies, page 830
26.2.1 Administrative Officers, page 830
26.2.2 Location, page 830
26.2.3 General Statement Concerning Higher Degrees, page 830
26.3 Important Dates 2012–2013, page 830
26.4 Graduate Studies at a Glance, page 830
26.4.1 Graduate and Postoctoral Degrees Offered by Faculty, page 830
26.4.2 Master's Degrees and Prerequisites, page 833
26.4.3 Master's Degree Programs and Specializations, page 834
26.4.4 Doctoral Degrees, page 838
26.4.4.1 Doctoral Degree Programs and Specializations, page 839
26.4.5 Postdoctoral Research, page 841
26.4.6 Graduate Diplomas and Graduate Certificates, page 841
26.5 Program Requirements, page 842
26.5.1 Master's Degrees, page 842
26.5.2 Doctoral Degrees, page 843
26.5.3 Ad Personam Programs (Thesis Option Only), page 844
26.5.4 Coursework for Graduate Programs, Diplomas, and Certificates, page 844
26.6 Graduate Admissions and Application Procedures, page 844
26.6.1 Application for Admission, page 844
26.6.2 Admission Requirements (minimum requirements to be considered for admission), page 845
26.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 845
26.6.3.1 Document Checklist Terms, page 845
26.6.4 Admission Tests, page 846
26.6.5 Competency in English, page 846
26.6.6 Admission to a Qualifying Program, page 847
26.6.7 Admission to a Second Degree Program, page 847
26.6.8 Admission to Two Degree Programs, page 847
26.6.9 Admission to an Ad Personam Joint Program, page 847
26.6.10 Reinstatement and Admission of Former Students, page 847
26.6.11 Deferral of Admission, page 848
26.7 Fellowships, Awards,

26.11 Academic Programs, page 852
26.11.1 Physical and Occupational Therapy, page 852
26.11.1.1 Location, page 852
26.11.1.2 About Physical and Occupational Therapy, page 853
26.11.1.3 Physical and Occupational Therapy Admission Requirements and Application Procedures, page 853
26.11.1.4 Physical and Occupational Therapy Faculty, page 855
26.11.1.5 Master of Science (M.Sc.); Rehabilitation Science (Thesis) (45 credits) , page 858
26.11.1.6 Master of Science (M.Sc.); Rehabilitation Science (Non-Thesis) (45 credits) , page 858
26.11.1.7 Master of Science, Applied (M.Sc.A.); Physical Therapy (Non-Thesis) (58 credits) , page 859
26.11.1.8 Master of Science, Applied (M.Sc.A.); Occupational Therapy (Non-Thesis) (58 credits) , page 860
26.11.1.9 Doctor of Philosophy (Ph.D.); Rehabilitation Science , page 861
26.11.1.10 Graduate Certificate in Assessing Driving Capabilities (15 credits) , page 862
26.11.1.11 Graduate Certificate in Chronic Pain Management (15 credits) , page 862
27 Faculty of Religious Studies, page 862
27.1 Dean's Welcome, page 862
27.2 Graduate and Postdoctoral Studies, page 863
27.2.1 Administrative Officers, page 863
27.2.2 Location, page 863
27.2.3 General Statement Concerning Higher Degrees, page 863
27.3 Important Dates 2012–2013, page 863
27.4 Graduate Studies at a Glance, page 864
27.4.1 Graduate and Postoctoral Degrees Offered by Faculty, page 864
27.4.2 Master's Degrees and Prerequisites, page 866
27.4.3 Master's Degree Programs and Specializations, page 867
27.4.4 Doctoral Degrees, page 872
27.4.4.1 Doctoral Degree Programs and Specializations, page 872
27.4.5 Postdoctoral Research, page 874
27.4.6 Graduate Diplomas and Graduate Certificates, page 874
27.5 Program Requirements, page 875
27.5.1 Master's Degrees, page 875
27.5.2 Doctoral Degrees, page 876
27.5.3 Ad Personam Programs (Thesis Option Only), page 877
27.5.4 Coursework for Graduate Programs, Diplomas, and Certificates, page 877
27.6 Graduate Admissions and Application Procedures, page 877
27.6.1 Application for Admission, page 877
27.6.2 Admission Requirements (minimum requirements to be considered for admission), page 878
27.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 878
27.6.3.1 Document Checklist Terms, page 878
27.6.4 Admission Tests, page 879
27.6.5 Competency in English, page 879

27.6.6 Admission to a Qualifying Program, page 880

27.6.7 Admission to a Second Degree Program, page 880

27.6.8 Admission to Two Degree Programs, page 880

27.6.9 Admission to an Ad Personam Joint Program, page 880

27.6.10 Reinstatement and Admission of Former Students, page 880

27.6.11 Deferral of Admission, page 881

27.7 Fellowships, Aw

28.4.4.1 Doctoral Degree Programs and Specializations,

28.11.1.9 Master of Arts (M.A.); Music — Musicology (Thesis) — Gender and Women's Studies (45 credits) , page 926
28.11.1.10 Master of Music (M.Mus.); Sound Recording (Non-Thesis) (60 credits) , page 926
28.11.1.11 Master of Arts (M.A.); Music — Theory (Thesis) (45 credits) , page 927
28.11.1.12 Master of Arts (M.A.); Music — Theory (Thesis) — Gender and Women's Studies (45 credits) , page 928
28.11.1.13 Master of Arts (M.A.): Music — Music Education (Non-Thesis) (45 credits) , page 929
28.11.1.14 Master of Arts (M.A.); Music — Musicology (Non-Thesis) (45 credits) , page 929
28.11.1.15 Master of Arts (M.A.); Music — Theory (Non-Thesis) (45 credits) , page 929
28.11.1.16 Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 credits) , page 930
28.11.1.17 Master of Music (M.Mus.); Performance: Jazz Performance (Thesis) (45 credits) , page 931
28.11.1.18 Master of Music (M.Mus.); Performance: Early Music (Thesis) (45 credits) , page 932
28.11.1.19 Master of Music (M.Mus.); Performance: Orchestral Instruments and Guitar (Thesis) (45 credits) , page 934
28.11.1.20 Master of Music (M.Mus.); Performance: Collaborative Piano (Thesis) (45 credits) , page 937
28.11.1.21 Master of Music (M.Mus.); Performance: Piano (Thesis) (45 credits) , page 938
28.11.1.22 Master of Music (M.Mus.); Performance: Opera and Voice (Thesis) (45 credits) , page 940
28.11.1.23 Master of Music (M.Mus.); Performance: Organ and Church Music (Thesis) (45 credits) , page 943
28.11.1.24 Master of Music (M.Mus.); Performance: Conducting (Thesis) (45 credits) , page 944
28.11.1.25 Graduate Diploma in Professional Performance (30 credits) , page 946
28.11.1.26

29.5.1 Master's Degrees, page 962
29.5.2 Doctoral Degrees, page 963
29.5.3 Ad Personam Programs (Thesis Option Only), page 964
29.5.4 Coursework for Graduate Programs, Diplomas, and Certificates, page 964
29.6 Graduate Admissions and Application Procedures, page 964
29.6.1 Application for Admission, page 964
29.6.2 Admission Requirements (minimum requirements to be considered for admission), page 965
29.6.3 Application Procedures (for All Admissions Starting Summer 2013), page 965
29.6.3.1 Document Checklist Terms, page 965
29.6.4 Admission Tests, page 966
29.6.5 Competency in English, page 966
29.6.6 Admission to a Qualifying Program, page 967
29.6.7 Admission to a Second Degree Program, page 967
29.6.8 Admission to Two Degree Programs, page 967
29.6.9 Admission to an Ad Personam Joint Program, page 967
29.6.10 Reinstatement and Admission of Former Students, page 967
29.6.11 Deferral of Admission, page 968
29.7 Fellowships, Awards, and Assistantships, page 968
29.8 Postdoctoral Research, page 968
29.8.1 Postdocs, page 969
29.8.2 Guidelines and Policy for

29.11.2.4 Biology Faculty, page 980
29.11.2.5 Master of Science (M.Sc.); Biology (Thesis) (45 credits) , page 982
29.11.2.6 Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits) , page 982
29.11.2.7 Master of Science (M.Sc.); Biology (Thesis) — Neotropical Environment (48 credits) , page 982
29.11.2.8 Master of Science (M.Sc.); Biology (Thesis) — Bioinformatics (48 credits) , page 983
29.11.2.9 Doctor of Philosophy (Ph.D.); Biology , page 983
29.11.2.10 Doctor of Philosophy (Ph.D.); Biology — Developmental Biology , page 983
29.11.2.11 Doctor of Philosophy (Ph.D.); Biology — Environment , page 984
29.11.2.12 Doctor of Philosophy (Ph.D.); Biology — Neotropical Environment , page 985
29.11.2.13 Doctor of Philosophy (Ph.D.); Biology — Bioinformatics , page 985
29.11.3 Chemistry, page 985
29.11.3.1 Location, page 985
29.11.3.2 About Chemistry, page 986
29.11.3.3 Chemistry Admission Requirements and Application Procedures, page 987
29.11.3.4 Chemistry Faculty, page 987
29.11.3.5 Master of Science, Applied (M.Sc.A.); Chemistry (Non-Thesis) (45 credits) , page 989
29.11.3.6 Master of Science (M.Sc.); Chemistry (Thesis) (45 credits) , page 989
29.11.3.7 Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits) , page 990
29.11.3.8 Doctor of Philosophy (Ph.D.); Chemistry , page 991
29.11.3.9 Doctor of Philosophy (Ph.D.); Chemistry — Chemical Biology , page 991
29.11.4 Computer Science, page 992
29.11.4.1 Location, page 992
29.11.4.2 About Computer Science, page 992
29.11.4.3 Computer Science Admission Requirements and Application Procedures, page 993
29.11.4.4 Computer Science Faculty, page 994
29.11.4.5 Master of Science (M.Sc.); Computer Science (Thesis) (45 credits) , page 995
29.11.4.6 Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits) , page 996
29.11.4.7 Master of Science (M.Sc.); Computer Science (Thesis) — Bioinformatics (45 credits) , page 997
29.11.4.8 Master of Science (M.Sc.); Computer Science (Non-Thesis) (45 credits) , page 998
29.11.4.9 Doctor of Philosophy (Ph.D.); Computer Science , page 998
29.11.4.10 Doctor of Philosophy (Ph.D.); Computer Science — Bioinformatics , page 1000
29.11.5 Earth and Planetary Sciences, page 1000
29.11.5.1 Location, page 1000
29.11.5.2 About Earth and Planetary Sciences, page 1000
29.11.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures, page 1002
29.11.5.4 Earth and Planetary Sciences Faculty, page 1002
29.11.5.5 Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) (45 credits) , page 1003
29.11.5.6 Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) — Environment (48 credits) , page 1004
29.11.5.7 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences , page 1004

29.11.5.8 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment , page 1005
29.11.6 Geography, page 1005
29.11.6.1 Location, page 1005
29.11.6.2 About Geography, page 1005
29.11.6.3 Geography Admission Requirements and Application Procedures, page 1008
29.11.6.4 Geography Faculty, page 1009
29.11.6.5 Master of Science (M.Sc.); Geography (Thesis) (45 credits) , page 1010
29.11.6.6 Master of Science (M.Sc.); Geography (Thesis) — Environment (45 credits) , page 1010
29.11.6.7 Master of Science (M.Sc.); Geography (Thesis) — Neotropical Environment (45 credits) , page 1011
29.11.6.8 Doctor of Philosophy (Ph.D.); Geography , page 1011
29.11.6.9 Doctor of Philosophy (Ph.D.); Geography — Environment , page 1011
29.11.6.10 Doctor of Philosophy (Ph.D.); Geography — Gender and Women's Studies , page 1012
29.11.6.11 Doctor of Philosophy (Ph.D.); Geography — Neotropical Environment , page 1013
29.11.7 Mathematics and Statistics, page 1013
29.11.7.1 Location, page 1013
29.11.7.2 About Mathematics and Statistics, page 1013
29.11.7.3 Mathematics and Statistics Admission Requirements and Application Procedures, page 1014
29.11.7.4 Mathematics and Statistics Faculty, page 1015
29.11.7.5 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) (45 credits) , page 1018
29.11.7.6 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Bioinformatics (48 credits) , page 1018
29.11.7.7 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and Engineering (47 credits) , page 1018
29.11.7.8 Master of Science (M.Sc.); Mathematics and Statistics (Non-Thesis) (45 credits) , page 1020
29.11.7.9 Doctor of Philosophy (Ph.D.); Mathematics and Statistics , page 1020
29.11.7.10 Doctor of Philosophy (Ph.D.); Mathematics and Statistics — Bioinformatics , page 1020
29.11.8 Physics, page 1021
29.11.8.1 Location, page 1021
29.11.8.2 About Physics, page 1021
29.11.8.3 Physics Admission Requirements and Application Procedures, page 1023
29.11.8.4 Physics Faculty, page 1023
29.11.8.5 Master of Science (M.Sc.); Physics (Thesis) (45 credits) , page 1025
29.11.8.6 Doctor of Philosophy (Ph.D.); Physics , page 1025
29.11.9 Psychology, page 1026
29.11.9.1 Location, page 1026
29.11.9.2 About Psychology, page 1026
29.11.9.3 Psychology Admission Requirements and Application Procedures, page 1027
29.11.9.4 Psychology Faculty, page 1028
29.11.9.5 Master of Science (M.Sc.); Psychology (Thesis) (45 credits) , page 1029
29.11.9.6 Doctor of Philosophy (Ph.D.); Psychology , page 1030
29.11.9.7 Doctor of Philosophy (Ph.D.); Psychology — Language Acquisition , page 1030

29.11.9.8 Doctor of Philosophy (Ph.D.); Psychology — Psychosocial Oncology , page 1032

29.11.10 Redpath Museum, page 1032

29.11.10.1 Location, page 1032

29.11.10.2 About Redpath Museum, page 1033

29.11.10.3 Redpath Museum Admission Requirements and Application Procedures, page 1033

29.11.10.4 Redpath Museum Faculty, page 1033

1 University Regulations and Resources

2 Regulations

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Regulations* section of this

has registered for a last course such as a project but has not completed it, must register as Non-Thesis Extension status until graduation. Students in a Non-Thesis Extension session who are not registered for at least 12 credits per term, are not considered engaged in full-time studies.

2.1.5 Thesis Evaluation Students

Revision, December 2012.

students and Postdocs on leave. A student on leave of absence during the Fall term must register for an active term of study in the Winter term (at least) in order to apply for graduation. A student on leave of absence during the Winter and/or Summer terms must register for an active term of study in the Fall term (at least) in order to apply for graduation. GPS has prepared 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. The document is available at *www.mcgill.ca/gps/students/milestones/leave* under “Information on the Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

(*www.mcgill.ca/gps/students/progress/leave-vacation*)

2.1.12 Medical Residents

Residents and fellows on staff of teaching hospitals associated with the University are included in Graduate and Postdoctoral Studies statistics. They must apply for admission to be Special Students or for admission to a degree program, a graduate diploma or certificate.

2.1.13 McGill Staff as Graduate Students

Revision, December 2012. Start of revision.

Members of the teaching staff of the Univ

2.1.15 Quebec Inter-University Transfer Agreement: Visiting IUT Students

The Quebec Inter-University Transfer (IUT) agreement permits concurrent registration at McGill and another Quebec institution.

If you are a student at another Quebec university and you want to take courses at McGill using the Quebec Inter-University Transfer (IUT) agreement, you must initiate an online application to request the required authorizations at

2.2.3 Summer Registration

Note: As a result of an ongoing integration of Graduate and Postdoctoral Studies and Enrolment Services, policies and procedures are currently undergoing review and revision. Updates will be communicated to departments as decisions are made.

Detailed Summer registration information will be available in the middle of March in individual departments and at *www.mcgill.ca/gps/students/registration/dates*.

Course Registration

Students taking summer courses register within Graduate and Postdoctoral Studies deadlines on Minerva at *www.mcgill.ca/minerva*.

Summer Term of Residence

Students in thesis programs who wish to register for a Summer term **to count as part of their residence requirements** must advise their department in March and complete the appropriate Summer Registration Form in April. Newly admitted students beginning their graduate thesis program in a Summer Term of Residence can get a 100% refund (less $200 minimum or registration deposit if applicable) up to and including the May 15th withdrawal date. Students in thesis programs, who at the end of the Winter term are continuing in their programs, are expected to devote the summer to research and are considered "Continuing Students."

2.2.4 Courses Taken in the School of Continuing Studies

Revision, December 2012. Start of revision.

Note: As a result of an ongoing integration of Graduate and Postdoctoral Studies and Enrolment Services, policies and procedures are currently undergoing review and revision. Updates will be communicated to departments as decisions are made.

In the Fall and Winter terms, students may add credit courses (500 level or higher) offered through the School of Continuing Studies (SCS) directly on Minerva. Please see *www.mcgill.ca/importantdates* for deadlines.

Non-credit general interest or languages courses cannot be added directly by the student. Students may register for these courses in person at the SCS, where the course(s) will be added to their record as "**Extra**" to their program and course fees will be charged.

Summer courses offered through the SCS cannot be added directly by the student. To add these courses, students must bring a copy of their approved *Minerva Course Selection Form* to Enrolment Services where, subject to space availability and program controls, the course(s) will be added to their record. To register for courses offered through the SCS, students must be registered in their graduate studies program. All courses taken at SCS must be completed unless the course has been dropped on Minerva according to SCS course drop/withdrawal deadlines. **Enrolment Services reserves the right to place limitations on the number of SCS courses taken for any one program. Approval from Enrolment Services must be obtained prior to registration.**

Revision, December 2012. End of revision.

2.2.5 Courses Taken as Extra to a Program

Courses are offered through the McGill Writing Centre for graduate students whose first language is not English, and some writing courses are offered in other units. These courses cannot be counted toward the requirements of a graduate program.

The courses are:

CESL 500 ESL: RESEARCH ESSAY AND RHETORIC (3) (3 hours) (Formerly ESLN 500.) (Prerequisite: CESL 400 or ESLN 400 or placement test.) (Restriction: Not open to students who have taken CEAP 250 or EAPR 250 or EFRL 250 or ESLN 500.) (Open only to students in degree programs.) For the near-native speaker of English. Principles and use of academic research, genres, rhetorical strategies, and editing skills.

CESL 640 FUNDAMENTALS OF ACADEMIC WRITING FOR GRADUATE STUDENTS (3) (Formerly ESLN 640.) (Prerequisite: Placement test.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 590 or ESLN 640 or ESLN 690 except with permission of the instructor.) (This course cannot be counted towards course requirements of any graduate program.) Focus is on structuring an academic essay and expressing complex ideas. Multiple drafts. Independent learning strategies for academic reading, critical thinking, vocabulary building, and self-editing. Review of writing mechanics.

CESL 650 PRONUNCIATION & COMMUNICATION (3) (3 hours) (Formerly ESLN 650.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 550 or ESLN 650.) (This course cannot be counted towards course requirements of any graduate program.) Focus on developing pronunciation and communication skills, including aspects of pronunciation that most affect intelligibility, and with verbal and non-verbal techniques for effective presentations.

CESL 660 PRONUNCIATION: INDEPENDENT STUDY (0) (Formerly ESLN 660.) (Prerequisite: CESL 650 or ESLN 650.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 660.) Oral practice in a language lab using authentic materials specific to students' field of study.

CESL 690 WRITING FOR GRADUATE STUDENTS (3) (Formerly ESLN 690.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language and who are at the thesis/dissertation writing stage, except with permission of the instructor. Not open to students who have taken ESLN 590 or ESLN 690.) (This course cannot be counted towards course requirements of any graduate program.) Audience, purpose, organization, and style of graduate-level academic writing. Mechanics. Editing. Textual analysis. Critical thinking. Genres: problem-solution, general-specific, process

EDEC 645 SCIENCE WRITING AND PUBLISHING (3) (Restriction: Limited to senior graduate students - Ph.D. 2 and above.) Techniques for writing reader-sensitive scientific articles and grant applications, including how to express abstract ideas.

REDM 610 WRITING SCIENCE ARTICLES 1 (3) (Prerequisite: Permission of instructor.) (Restrictions: Restricted to graduate students in the Faculty of Science; graduate students from other faculties considered, space permitting. Enrolment is limited to 12 students. The language of instruction is English

2.3 Course Information and Regulations

Students are advised to also refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > : Registration* and *: Student Records*

Note:

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your Faculty Student Affairs Office. Additional restrictions for Music courses are indicated in *Programs, Courses and University Regulations > Faculties & Schools > Schulich School of Music* .
2. It is solely your responsibility to initiate a course withdrawal on Minerva. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on Minerva is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the Course Change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with *section 6.8: Fees and Withdrawal from the University*.

Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at the *Service Point* (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see *www.mcgill.ca/students/advising*.

2.8 Regulations Concerning University Withdrawal

If you are considering withdrawing from the University, you are strongly encouraged to consult with your adviser and your Student Affairs Office (*www.mcgill.ca/students/advising/advisordirectory*) before making a final decision.

2.8.1 Student's Responsibility

It is solely your responsibility to initiate University withdrawal by submitting a form or writing to your Student Affairs Office. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you dropped or withdrew from all courses is entered on Minerva and is the official date of withdrawal, even if you had stopped attending lectures earlier.

Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at *Service Point* (3415 McTavish). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see *www.mcgill.ca/students/advising*.

Note for Graduate and Postdoctoral Studies: The date the request for withdrawal is submitted is the official date of withdrawal.

2.8.2 Regulations Concerning University Withdrawal: Deadlines for University Withdrawal

If you decide not to attend the term(s) you are registered in, you must officially withdraw from the University within the deadlines indicated. See Withdrawal (W) deadline dates at *www.mcgill.ca/importantdates*. If you drop or withdraw from your last Fall or Winter course by the end of the add/drop period of that term, you are withdrawn from the University. To return to your studies, you must follow the procedures for readmission. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > : Readmission*.

To withdraw from the University by the deadlines indicated below, you must drop or withdraw from all courses on Minerva (*www.mcgill.ca/minerva*).

2.8.2.1 Fall Term:

Deadline for University withdrawal with refund (minus $200 for returning and the registration deposit for new students): Tuesday, September 25, 2012

Deadline for University withdrawal without refund: Tuesday, October 16, 2012

2.8.2.2 Winter Term:

Deadline for University withdrawal with refund (minus $200 for returning and the registration deposit for new students): Tuesday, January 29, 2013

Deadline for University withdrawal without refund: Tuesday, February 19, 2013

If you are blocked from dropping or withdrawing from your last course on Minerva, you are required to contact your Student Affairs Office, which will supply any forms necessary to complete the University withdrawal as long as you have not missed **the deadline for University withdrawal**.

Note for the Faculty of Agricultural and Environmental Sciences: If you wish to withdraw after the deadlines indicated above, please contact the Faculty Adviser in the Student Affairs Office for further information.

Note for the Faculties of Arts and Science (including B.A. & Sc.): If you want to withdraw after the deadlines indicated above, under exceptional circumstances you may be granted permission for University withdrawal. Requests are made at Service Point (3415 McTavish Street). However, it is import.804 Pat Sou malso sc9h702 7l980 080 1 93.52 708.56 y ad8.8m(in Dan for Uni)Tj1 0 0 1 93.52 70ws peHall6 Tmtalkindiurt.80r o6 Tm6 Tm((w aeTm(I

The University assigns grade points to letter grades according to the table above. Your academic standing is determined by a grade point average (GPA),

2.10 Grading and Grade Point Averages (GPA): Unexcused Absences

All students who miss a final exam are given a J grade. You then have the following options:

1. Ask to be assigned a grade based only on the grades earned for your work submitted up to, but not including, the final exam.

   The grade earned is calculated by adding the grades obtained on the individual pieces of work and a grade of 0 for the portion of the final grade allocated to the final exam. This option is not available if the professor stipulated in the course outline that the final exam is a required part of the evaluation.
2. Request a deferred exam, if you have the appropriate reasons and documentation.
3. Apply for a supplemental exam if permitted by your faculty.

Note for Engineering: Option **1** is not available to students in the Faculty of Engineering.

You must request option 1) no later than four months after the end of the examination period of the original course.

You must request option 2) by the faculty deadlines as indicated in *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations >*

Please note that Degree Evaluation is an advising tool only. A Degree Evaluation Report that indicates program requirements have been satisfied does NOT constitute approval to graduate.

For details regarding Degree Evaluation, including *Reading a Degree Evaluation Report*, see *www.mcgill.ca/students/courses/plan/evaluation*.

2.13 Changes to Student Records after Normal Deadlines

2.13.1 Student Record Changes

Student record changes include the following: course add or course drop, course withdrawal, university withdrawal, program change (including changing majors, minors, or concentrations).

2.13.2 Registrar Deadlines

F815.v1ee4e4e4146 anuary 31 0 0 1 67.52 605.8547.34(815.vW 0 0 1 71.9034m(.8547.34(815.vinormae4e4146 une 1 0 0 1 67.52 605.8532.76(815.vSummrmae4e414

T31f 1h4Fal toindicyousalsoal toacultysing trmaat Da 0 0 1 463.3222.4418308.46(al towsporH1ee4eo talk about your1op),)Tcand olloef 0 0 1 67.52334mm518308.46(al tot

You can consult the policy at *University Student Assessment Policy*.

2.17 Regulations Concerning Theses

The thesis submission guidelines contain important information regarding procedures and deadlines. Students who are in the process of writing a thesis must consult these thesis submission guidelines in order to adhere to University regulations concerning the submission of a thesis. Thesis submission guidelines and all the forms required for thesis submission are posted on the web at

- Summer term graduation (courses completed by August; transcript will indicate "Degree Granted" in October; Fall convocation): You must apply on Minerva by the end of March.

If you miss one of these deadlines, contact your Faculty Student Affairs Office immediately.

Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at Service Point (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see *www.mcgill.ca/students/advising*.

Note for Continuing Studies: The minimum residency requirement of 60 credits does not apply to the School of Continuing Studies certificates and diplomas.

Revision, July 2012. Start of revision.

Note for Graduate and Postdoctoral Studies: If you miss one of these deadlines, you must follow the procedures at *www.mcgill.ca/gps/students/graduating*. The Application for Graduation is available on Minerva for students in non-thesis programs who have registered for their final year. To ensure that you have met the requirements for graduation, you should refer to *Program Requirements > Master's Degrees*, found under each faculty's *Graduate* section in the *Programs, Courses and University Regulations* publication at *www.mcgill.ca/study*.

Revision, July 2012. End of revision.

2.18.2 Graduation Approval Query

As a graduating student, you can view the status of your graduation record on Minerva (*www.mcgill.ca/minerva*) during the Faculty review and approval process (go to *Student Records > Graduation Approval Query*). The *Graduation Approval Query* form becomes available to graduating students approximately three to four weeks before the *Degree Granted* notation is updated on their records.

If you have met all requirements for graduation, your student record on Minerva will display the *Degree Granted* notation at the appropriate time:

- Late February, for Fall term graduation (Convocation in Spring)
- Late May, for Winter term graduation (Convocation in Spring)
- Late October, for Summer term graduation (Convocation in Fall)

See *www.mcgill.ca/students/graduation/convocation* for information regarding convocation ceremonies.

2.18.3 Replacing a Diploma

2.18.3.1 Required Documents

Replacing a lost diploma

You must provide a sworn affidavit from a notary, lawyer, or commissioner of oaths certifying that your original diploma was lost. The affidavit should include your full name, address, phone number, and date of birth, as well as your degree and the year it was granted. You must clearly state your reason for requesting a replacement.

Replacing a damaged diploma or modifying your name

You must provide your original diploma. For name changes, enclose a photocopy of your of birth certificate, change of name certificate, marriage certificate, proof of divorce, or other legal documents that support your name change, corrections, additions, or deletions. Also include a letter listing your full name, student number, address, phone number, and date of birth. You must state your reason for requesting a replacement diploma, and clearly indicate any changes you want made.

2.18.3.2 Making Your Request

Revision, December 2012. Start of revision.

There are two ways to submit a request:

1. Mail a written request to *Service Point*, along with the required supporting documents, and a certified cheque or money order in the amount of CAD$90 payable to McGill University.
2. Come to *Service Point* in person with the required documents. You can pay the replacement fee of CAD$90 via debit card. If you choose this option, please allow for appropriate delays in diploma printing and mailing time.

Note: Requests made on behalf of a student must be accompanied by a signed letter of authorization from the student.

Revision, December 2012. End of revision.

2. *Ministère de l'Immigration et des Communautés culturelles* and/or the *Régie de l'assurance-maladie du Québec* and the *Ministère de l'Enseignement supérieur, de la Recherche, de la Science et de la Technologie* (MESRST)
3. The appropriate authorities involved with the external or internal funding of your student fees (financial records may also be disclosed to those authorities)
4. The Association of Universities and Colleges of Canada
5. The Association of Registrars of Universities and Colleges of Canada and the *Conférence des recteurs et des principaux des universités du Québec*, or the member institutions of these organizations, for the purpose of admissions operations and the production of statistics
6. The school(s) or college(s) that you attended
7. Students and alumni who have volunteered to speak with admitted students
8. Student Associations recognized by McGill University for the student category(ies) to which you belong
9. The McGill Alumni Association
10. Professional bodies or corporations (e.g., engineers, dentists)
11. McGill Network and Communications Services for the purposes of listing your McGill email address in an online email directory

If you do not want to authorize the University to disclose personal information to the organizations mentioned above in 8, 9, 10, and 11, you must complete and submit an *Opposition Form*, available at Service Point (*www.mcgill.ca/students/servicepoint*).

2.21 Transcript of Academic Record: Unofficial Transcripts

If you require a copy of your student record, access Minerva (*www.mcgill.ca/minerva*) to view and print an unofficial transcript. This applies to records from 1976 to the present. For pre-1976 records, you must order an official transcript. See *section 2.22: Transcript of Academic Record: Official Transcripts*.

2.22 Transcript of Academic Record: Official Transcripts

Use Minerva (*www.mcgill.ca/minerva*) to order an official transcript at *Student Menu* > *Student Records Menu* > *Request Printed/Official Transcript*. For more information on transcripts, delivery method, and processing time, see *www.mcgill.ca/students/records/transcripts*.

Alumni who were registered or graduated prior to Fall 2002: Please visit the IT Knowledgebase (*www.mcgill.ca/it*) to view how your McGill ID & Minerva PIN has changed.

Alumni who were registered or graduated prior to 1972 (archived records): You are unable to submit a request in Minerva. Complete and sign a *Request for Release of Official Document* form located on: *www.mcgill.ca/students/records/forms* and submit the form to Service Point (*www.mcgill.ca/students/records/contact*).

Note: Proxy requests will be accepted only with written authorization.

2.23 Transcript of Academic Record: General Information

The University issues official transcripts free of charge and will mail them by regular mail to the address(es) indicated on the request made in *Minerva*. Alternatively, they may be picked up in person at *Service Point* in sealed envelopes.

Note: You cannot submit a transcript request in Minerva if you have **holds** on your record (e.g., accounting, registrar, library, etc.). Please verify your unofficial transcript in Minerva for any holds.

A McGill transcript includes all attempted work and final grades obtained in any and all programs. The University does **not** issue partial transcripts under any circumstances.

Requests are processed in about 3 to 5 working days (5 to 7 during peak periods). Requests for archived transcripts (pre-1972), however

2.24 Transcript of Academic Record: Course Numbering on the Transcript

Prior to September 2002, course numbers had seven-character designations beginning with a three-number code indicating the teaching unit/department. The next three digits specified the course, with the first of these indicating its level. The final character was a letter indicating the term, or terms, during which the course was offered. For example:

107-200A = Philosophy (107) course (200) in Fall term (A);

301-202B = Architecture (301) course (202) in Winter term (B);

154-230D = Economics (154) course (230) extending for two terms, Fall and Winter (D).

A list of the former Teaching Unit Codes and their Subject Code equivalents is available at *www.mcgill.ca/student/records/transcripts/key*.

For information on our current course numbering, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > Course Information and Regulations > section 2.3.2: Course Numbering*.

Note for Continuing Studies: Examples of course numbers displaying on transcripts prior to September 2002 are:

280-211X = Intro. to Financial Accounting in Fall term (X);
629-202Y = Micro Economics in Winter term (Y);
660-221Z = Project Management extending for two terms, F

Quebec and Canadian Out-of-Province Students	
You have applied to McGill from another Quebec university	• Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Record of Permanent Resident status (Note 3); or valid Canadian Permanent Resident card (both sides of the card) • For your Quebec residency status, **usually** no documents are required, unless McGill cannot confirm this from the Government of Quebec
You were born in Quebec	• Quebec **birth certificate** (Notes 1 and 5) • Permanent Code Data Form (Notes 2 and 6)
You were born in (or are a Landed Immigrant from) a Canadian province other than Quebec	• Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Record of Permanent Resident status (Note 3); or valid Canadian Permanent Resident card (both sides of the card) • Permanent Code Data Form (Notes 2 and 6)
You are a Quebec resident as defined by one of the other situations outlined by the Government of Quebec	• Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 3); or valid Canadian Permanent Resident card (both sides of the card) • Permanent Code Data Form (Notes 2 and 6) • Attestation of Residency in Quebec Form (Note 6) • **Other supporting documents**, depending on which situation you checked on the above Attestation of Residency Form
International Students	
You will be studying at McGill for less than six months (i.e., for only one academic semester) as a non-degree student (e.g., Exchange, Special, Visiting)	• Visitors Permit issued at your port of entry into Canada by Citizenship and Immigration Canada • Photo page of your passport and the page date-stamped by Citizenship and Immigration Canada at your port of entry • Permanent Code Data Form (Notes 2 and 6)
You will be in Canada for more than six months (i.e., you are enrolled in a degree, certificate, or diploma program, usually for two or more consecutive	

2.27.1 Fee Exemptions

Students in certain categories may be eligible to claim an exemption from the international rate of tuition fees according to the regulations set by the Government of Quebec. These exemptions lower your fees to the Quebec rate of tuition. A list of categories and the required application form are available at *www.mcgill.ca/legaldocuments*.

2.28 Legal Documents: Has McGill Received Your Documents?

2.28.1 Quebec/Canadian/International Fees

Once McGill has received your documents, it usually takes one week to process them and update your file accordingly.

- Check your tuition status on the Minerva (*www.mcgill.ca/minerva*) Student Accounts menu: *Student Menu > Student Accounts Menu > View Tuition Fee and Legal Status*.
- Check the phrase: *Fees currently calculated according to rules for...* This will tell you if your tuition status is currently being billed at the international rate, the Canadian rate, or at the Quebec rate. For information on fees, see *www.mcgill.ca/student-accounts*.
- Electronic billing is the official means of deliv

Ensure that you sav

2.33 Name: Preferred First Name

You can provide a preferred first name on your application for admission or, once admitted, on Minerva (*Minerva*). Under the *Personal Menu*, From the *Personal Menu*, select *Name Change* and you will be able to add/modify this field.

Your preferred first name appears on class lists (in parentheses beside your legal name) for use by instructors. Note that your legal name will continue to appear on your transcript and diploma.

You can request to have your preferred first name display as part of your McGill Email Address by submitting a change to Network and Communication Services via REGGIE (*www.mcgill.ca/reggie*). For more information, see *www.mcgill.ca/students/records/address*.

2.34 Name: Verification of Name

You should verifwt1 Tf1 0 0 1 3Y

2.37 Authorization, Acknowledgement, and Consent

When applying for admission to the University, you are bound by and agree to observe all statutes, rules, regulations, and policies at McGill University and the faculty or faculties to which you may be accepted and registered in, including policies contained in the University Calendars and related fee documents. Your obligation as a student begins with your registration and ends in accordance with the University's statutes, rules, regulations, and policies.

You should verify all information or statements provided with your application. Incorrect or false information may jeopardize your admission. The University reserves the right to revoke an admission that is granted based on incorrect or false information in an application or supporting documents.

myMcGill is a collection of useful links and offers an integrated web experience with a single sign-on (SSO) to several McGill web systems. This allows you to access multiple McGill systems without being prompted for addition sy20L2oginsmptewsy20L2oginsmpo

3 Guidelines and Policies

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Guidelines and Policies* section of this publication contains important details required by students during their studies at McGill and should be periodically consulted, along with other sections and related publications.

3.1 Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision

The general guidelines suggested below are meant to encourage units to examine their graduate programs and to specify their own policies and procedures. These guidelines are directed primarily toward thesis programs but will, in part, be appropriate for non-thesis programs as well.

Each academic unit should have explicitly stated policies and procedures regarding the advising and supervising of graduate students, as well as established means for informing students of procedures and deadlines (e.g., orientation sessions, handbooks) and mechanisms for addressing complaints. Academic units should ensure that their policies and procedures are consistent with the Charter of Students' Rights. For their part, graduate students are responsible for informing themselves of these policies and procedures.

1. Assignment of Advisers, Supervisors, and Committees

i. Each unit should designate a member (or members) of the academic staff (usually the Graduate Program Director) to monitor the progress of students throughout the graduate program, to ensure that all conditions of admission and requirements are fulfilled, to provide students with information on their program, their progress through it, sources of and policies on financial support, and to advise them how to resolve problems which may arise during their program.

viii. Units should be sensitive to special academic needs and concerns that may arise in the case of certain students, such as international students or students who undertake graduate studies after a long absence from university.

3. **Responsibilities**

Each unit should clearly identify the student's supervisory needs at each phase and the means by which these needs will be met. Some functions will be fulfilled by the Chair, some by the Graduate Program Director, some by the supervisor and some by the committee. Each unit should clearly identify the specific responsibilities of each of these, as well as the responsibilities of students themselves.

i. Each unit should consider the availability of student support, research facilities, space, and availability of potential supervisors in determining the number of students admitted into the program.

ii. Some examples of the responsibilities of the Graduate Program Director are to be knowledgeable about program requirements, the composition of committees, the procedures for comprehensive and oral defense examinations, and other policies relating to graduate studies; to maintain a dossier on each student's progress; and to be sensitive to graduation deadlines and students' career plans.

iii. Some examples of the responsibilities of a supervisor are to uphold and to transmit to students the highest professional standards of research and/or scholarship; to provide guidance in all phases of the student's research; to meet with their students regularly; to provide prompt feedback when work is submitted including drafts of the thesis; and to clarify expectations regarding collaborative work, authorship, publication and conference presentations.

iv. Some examples of the responsibilities of the students are to inform themselves of program requirements and deadlines; to work within these deadlines; to communicate regularly with the supervisor and committee; and to submit progress reports to the supervisor and committee.

v. The Chair of the unit should ensure that procedures are in place to address serious disagreements that may arise, for example, between a student and a supervisor or between a supervisor and committee members. Such procedures should involve a neutral mediator who will ensure that all sides of a dispute are heard before any decision is made.

4. **Quality of Supervision and Teaching**

i. Academic units and Graduate and Postdoctoral Studies should consider ways to assess and improve the quality of supervision and to help new supervisors, e.g., through workshops or mentoring models. Procedures for monitoring the quality of graduate student supervision and for providing constructive feedback for supervisors should be developed.

ii. Graduate supervision should be recognized as an integral part of the academic responsibility of an academic unit and should be considered in the allocation of workload, as should the teaching of graduate courses.

iii. Academic units should establish criteria of excellence in supervision and graduate teaching appropriate to their disciplines and should suitably reward those who meet these criteria, e.g., in decisions concerning tenure and promotion, or merit pay awards.

iv. The maximum number of students under the direction of a single supervisor should be consistent with the ability of the supervisor to provide quality supervision, taking into account the workload of the supervisor and norms of the discipline.

v. Procedures should be established for ensuring continuity in supervision when a student is separated from a supervisor – for example, when the supervisor takes a sabbatical leave, retires from McGill or changes universities or when the student leaves to complete field work or takes a job before submitting a thesis.

Revised by Council of FGSR, April 23, 1999 and October 6, 2003

3.2 Policy on Graduate Student Research Progress Tracking

This is a new mandatory policy and procedure to track the research progress of graduate students. The policy is referred to in the amended *section 3.1: Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision* in bold font. Documents to record progress can be found on the GPS website: *www.mcgill.ca/gps/students/research-exams#progress*.

The following is a summary of the main elements of the new **mandatory** policy. The following steps must be followed for each graduate student in a thesis program:

1. Annually, the student must meet with, at minimum, their supervisor(s) and a departmental representative. This meeting can occur in the context of an annual thesis or advisory committee in those departments that have thesis committees
2. At the first such meeting (to be held shortly after thesis students begin their programs), written objectives/expectations for the year must be recorded on the first of the three forms, Form #1 (Graduate Student Research Objectives Report Form). All three people at the meeting must sign this form. A student who does not agree to sign the form must write a statement detailing his/her objections to the expectations recorded on the form.
3. Approximately one year later, and every year thereafter, the student, supervisor(s) and the departmental representative should meet again to review the progress that has been achieved toward the recorded objectives. Prior to the meeting, the student should record his/her accomplishments and progress for the year by completing Form #2 (Graduate Student Research Progress Record). This completed form is then evaluated by the supervisor and the departmental representative on Form #3 (Graduate Student Research Progress Report Form). All parties sign Form #3. A student who does not agree to sign the form must write a statement detailing his/her objections. At this same meeting, objectives for the following year should be recorded on Form #1, as per the procedure described in point 2, above.
4. In the event that recorded research progress is unsatisfactory, a new set of objectives should be developed for the student at the meeting, and recorded on Form #1. These new, or interim, objectives apply only to the next semester. Evaluation of progress should take place after that semester has concluded, following the steps described in point 3, above.
5. In the event that a student has any two unsatisfactory evaluations they may be required to withdraw from their program of study. These two unsatisfactory evaluations need not be successive.
6. All forms are to be kept in departmental files.

7. Departments that already have progress tracking forms may continue to utilize them, but these must conform to the fundamental principles underlying this new policy. Specifically, any departmental procedure or forms to record graduate research progress must:

   - be used **annually**;
   - be used in a meeting with the supervisor and one other departmental representative, and signed by all parties;
   - include a written statement of expectations approximately one year before any evaluation (Note: This can be one semester in the case of expectations following an unsatisfactory evaluation.);
   - permit the student to submit a minority report and not sign;
   - state clearly that any two unsatisfactory evaluations may be grounds for requiring a student to withdraw.

   Please note this new University policy is **MANDATORY**. Students may grieve against a department that fails to adhere to the policy and procedures outlined above.

   Senate, September 2003

3.3 Ph.D. Comprehensives Policy

Preamble

The majority of doctoral programs at McGill require candidates to pass a comprehensive examination or set of examinations or equivalent, such as qualifying examinations, preliminary examinations, candidacy paper, comprehensive evaluation, thesis proposal, etc. The Graduate and Postdoctoral Studies *Programs, Courses and University Regulations* publication includes the following statement:

> A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. The results of this examination determine whether or not students will be permitted to continue in their programs. The methods adopted for examination and evaluation and the areas to be examined are specified by departmental regulations and approved by Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs.

It is recognized that expectations for the Ph.D. comprehensive will vary according to the needs of the discipline. It is important to make it clear to doctoral candidates what the expectations and procedures are for their Ph.D. comprehensive, and to maintain consistency within a given program.

1. **General Policy**

   At the beginning of the relevant academic year, units must provide doctoral students with a written description of the Ph.D. comprehensive, covering the following issues: objectives and content, format, timing, assessment, grading and reporting, failures. (See below for details.)

2. All units that have a Ph.D. comprehensive must adopt an administrativ

- oral exam (which may include or consist of a defense of a research paper or research proposal)

Approved by Executive of Faculty of Graduate Studies and Research (FGSR) February 17, 1997 and Council of FGSR March 7, 1997

3.4 Graduate Studies Reread Policy

Note: As a result of an ongoing integration of Graduate and Postdoctoral Studies and Enrolment Services, policies and procedures are currently undergoing review and revision. Updates will be communicated to departments as decisions are made.

This policy applies only in the case of grades given for written work in 600- and 700-level courses. For 500-level courses and below, the reread policy of the appropriate undergraduate faculty applies.

Consultation

In accordance with the Charter of Student Rights, and subject to the conditions stated therein, graduate students have the right, subject to reasonable administrative arrangements, “to consult any written submission for which they have received a grade and to discuss this submission with the examiner.”

Prepared by the Committee on Graduate Programs, Supervision and Teaching

Approved by Council of the Faculty of Graduate Studies and Research, May 12th 1995

3.5 Health and Parental/Familial Leave of Absence Policy

A leave of absence may be granted for maternity or parenting (interpreted according to McGill's “Parental Lea

4.11 Research Associates

A Research Associate is a senior career researcher who usually works independently, in most cases has a Ph.D. or equivalent, and is often supported directly by outside granting agencies. (*www.mcgill.ca/apo/classifications/other/research-associate*)

5 Student Services and Information

McGill offers a full range of student services and resources that support your life, learning, personal, and academic achievements.

5.1 Student Rights and Responsibilities

The *Handbook on Student Rights and Responsibilities* is produced jointly by the Office of the Dean of Students and the University Secretariat. It contains regulations and policies governing your rights and responsibilities as a student at McGill, and is available to you electronically at *www.mcgill.ca/secretariat/policies/students*.

To find out more about this topic, see: *www.mcgill.ca/students/srr*.

5.1.1 Support for Students: Office of the Dean of Students

The Dean and the Associate Dean of Students coordinate and promote initiatives concerned with important aspects of the student experience, such as advising, academic integrity, student discipline, student recognition programs, and outreach to families, the McGill community, and the broader local community.

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 4100
Montreal, QC H3A 0G3

For information, contact (Dean/Associate Dean):

Telephone: 514-398-4990
Email: *deanofstudents@mcgill.ca*
Website: *www.mcgill.ca/deanofstudents*

5.1.2 Office of the Executive Director, Services for Students

Revision, June 2012. Start of revision.

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 4100
Montreal, QC H3A 0G3

Revision, June 2012. End of revision.

For information, contact:

Telephone: 514-398-3825
Website: *www.mcgill.ca/studentservices*

The Executive Director, Services for Students (EDSS), coordinates all student services at McGill to help promote student success and well-being. The EDSS is available to provide assistance and/or information on almost all aspects of non-academic student life. Concerns of an academic nature are directed to the proper individual, office, or department. Funding is also available for projects, initiated by students and/or staff, that enhance student life and learning.

5.2 Student Services – Downtown Campus

Unless otherwise indicated, all Student Services on the Downtown campus are located in the William and Mary Brown Student Services Building, 3600 McTavish Street, Montreal, Quebec, H3A 0G3.

A list of services available is given below. For further information, see the Student Services website: *www.mcgill.ca/studentservices*.

Student Services:

Redpath Library Building, 3459 McTavish, Suite RS-56
Telephone: 514-398-6009
TDD: 514-398-8198
Email: *disabilities.students@mcgill.ca*
Website: *www.mcgill.ca/osd*

Revision, May 2012. End of revision.

Scholarships and Student (Financial) Aid Office: Provides assistance in the form of loans, bursaries, and Work Study programs to students requiring financial aid.

Brown Student Services Building, Suite 3200
General Information: 514-398-6013/6014
Telephone: 514-398-4807 (Scholarships)
Email: *student.aid@mcgill.ca*
Website: *www.mcgill.ca/studentaid*

Tutorial Service: Sponsors an extensive tutorial program for students.

Brown Student Services Building, Suite 4200
Telephone: 514-398-6011
Email: *tutoring.service@mcgill.ca*
Website: *www.mcgill.ca/tutoring*

5.3 Student Services – Macdonald Campus

Student Services at the Macdonald campus offers a range of non-academic services. All Student Services, whether at the Macdonald or Downtown campus, fall under the direction of the Office of the Executive Director, Services for Students. For detailed information, please visit our website at *www.mcgill.ca/macdonald-studentservices*, and the main Student Services website: *www.mcgill.ca/studentservices*.

Macdonald Campus Student Services Office
Centennial Centre, Room CC1-124
21,111 Lakeshore Road
Telephone: 514-398-7992
Fax: 514-398-7610
Email: *stuserv.macdonald@mcgill.ca*

Career Planning Service (CaPS): Assists you in your career development and search for permanent, part-time, and summer jobs by providing workshops, individual advising, a comprehensive job posting service, Career Fairs, and a Career Resource Centre.

Telephone: 514-398-7582
Website: *www.mcgill.ca/caps*
Email: *caps.macdonald@mcgill.ca*

Counselling Service: Offers confidential counselling for personal, social, emotional, vocational, and academic issues, among others.

Chaplaincy Service: Offers two support programs: The **Winter Coat Project** provides students with slightly used winter jackets and accessories. The **McGill Student Parents' Network (MSPN)** provides support for students with children, to help them succeed in their studies.

The Centennial Centre also provides international students with their mandatory Blue Cross Health Insurance cards, and coordinates midterm examinations for students registered with the Office for Students with Disabilities.

5.4 Residential Facilities

McGill Residences offers you a variety of accommodations that reflect the diversity of our student population on both the Downtown and Macdonald campuses.

Program Areas	Thesis/Non-Thesis	Options
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)

This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.

Program	Thesis/Non-Thesis	Options
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Chemistry	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis (Project), Non-Thesis (Practicum)	N/A
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

Master of Social Work (M.S.W.)

The M.S.W. degree represents a second level of professional study in which students build competence in a chosen field of practice.

Program	Thesis/Non-Thesis	Options
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

Master of Urban Planning

The program requires a minimum of two years residence and a three-month internship with a member of a recognized planning association.

Program	Thesis/Non-Thesis	Options
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

28.4.4 Doctoral Degrees

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 16.4.4.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See Law.
Doctor of Music	D.Mus.	M.A. in Composition (D.Mus. in Composition) or a master's degree in Performance, and professional and teaching experience (D.Mus. in Performance). See Music.
Doctor of Philosophy	Ph.D.	An undergraduate degree relevant to the subject chosen for graduate work. Some departments require all Ph.D. candidates to hold a master's degree in the same subject. Departments may recommend that candidates of undoubted promise should be allowed to proceed directly to the Ph.D. degree without being required to submit a master's thesis.

28.4.4.1 Doctoral Degree Programs and Specializations

Doctor of Civil Law (D.C.L.)

Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.

Program	Options	Offered by Faculty/School
Law	Air and Space Law, Comparative Law	Faculty of Law

Doctor of Music (D.Mus.)

The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.

The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).

Program	Options	Offered by Faculty/School
Music	Composition, Performance Studies	Schulich School of Music

Doctor of Philosophy Degrees

Programs leading to the degree of Doctor of Philosophy are offered in the following areas:

Program	Options	Offered by Faculty/School
Animal Science	Bioinformatics	Faculty of Agricultural and Environmental Sciences
Anthropology	Neotropical Environment	Faculty of Arts
Architecture	N/A	Faculty of Engineering
Art History	Gender and Women's Studies	Faculty of Arts
Atmospheric and Oceanic Sciences	N/A	Faculty of Science
Biochemistry	Bioinformatics, Chemical Biology	Faculty of Medicine
Biology	Bioinformatics, Developmental Biology, Environment, Neotropical Environment	Faculty of Science
Biomedical Engineering	Bioinformatics	Faculty of Medicine
Bioresource Engineering	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Biostatistics	N/A	Faculty of Medicine
Cell Biology	N/A	Faculty of Medicine
Chemical Engineering	N/A	Faculty of Engineering
	Chemical Biology	Faculty of Science

Program	Options	
Classics	N/A	
Communication Sciences and Disorders	Language Acquisition	
Communication Studies	Gender and Women's Studies	
Computer Science	Bioinformatics	
Counselling Psychology	N/A	
Earth and Planetary Sciences	Environment	
Economics	N/A	
Educational Psychology	N/A	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine

Program	Options	Offered by Faculty/School
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts

Joint Doctor of Philosophy Degrees

The following joint Ph.D. programs are offered:

Nursing (McGill / Université de Montréal)
Management (McGill / Concordia / H.E.C. / UQAM)
Social Work (McGill / Université de Montréal)

***Ad Hoc* Doctor of Philosophy Degrees (Ph.D. (*Ad Hoc*))**

Several departments offer the possibility of directly entering a Ph.D. program on an *ad hoc* basis, or, with the permission of the supervisor and the approval of the Graduate Program Director, exceptional students may transfer from the master's program to the

Graduate Diplomas are offered in:
Primary Care Nurse Practitioner

These diploma programs consist of at least two terms of full-time study or the equivalent.

Graduate Certificates are offered in:	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	Theory in Neonatology

: Tj /F1 8.1 Tf 1 0 0 1 315.598 732.921 Tm (heo Schoolof fContinung Etudies)of Tj 1 0 0 1 2133.86 572.921 Tm (er)s gaduat

Students taking courses at another univ

Courses in French language are available at the English and French Language Centre. The teaching is intensive and class sizes are kept small. While undergraduate students are given preference, graduate students who are certain they can devote sufficient time to the work may enrol.

Thesis – Doctoral

The thesis for the Ph.D. degree must display original scholarship expressed in good literate style and must be a distinct contribution to knowledge. **Formal notice of a thesis title and names of examiners must be submitted to the Thesis Section of GPS on the *Nomination of Examiners* form in accordance with the dates on *www.mcgill.ca/importantdates*, at the same time as the thesis is submitted**. The list of examiners must be approved by the Department Chair, the supervisor and the student. The Thesis Section of GPS should be notified of any subsequent change of title as early as possible. Guidelines and deadlines are available at *www.mcgill.ca/gps/thesis/guidelines*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

Special regulations for the Ph.D. degree in particular departments are stated in the entries of those departments.

Thesis Oral Examination – Doctoral

After the thesis has been received and approved, a final oral examination is held on the subject of the thesis and subjects intimately related to it. This is conducted in the presence of a Committee of at least five members presided over by a Pro-Dean nominated by Graduate and Postdoctoral Studies. The Chair of the candidate's department and the Thesis Supervisor are regularly invited to be members of the Committee; at least one member of the Committee is appointed from outside the candidate's department. Guidelines are available at *www.mcgill.ca/gps/thesis/guidelines*.

28.5.3 Ad Personam Programs (Thesis Option Only)

In very rare circumstances, an applicant who wishes to engage in Master's (thesis option only) or Ph.D. studies of an interdisciplinary nature involving joint supervision by two departments, each of which is authorized by the Government of Quebec to offer its own graduate programs, may be admitted to an *Ad Personam* program. For more information, see *www.mcgill.ca/gradapplicants/apply/prepare#program* and contact the relevant department.

28.5.4 Coursework for Graduate Programs, Diplomas, and Certificates

Upper-level undergraduate courses (excluding 500 level) may not be considered for degrees, diplomas, and certificates unless they are already listed as required courses in the approved program description. If an upper-level undergraduate course (excluding 500 level) is taken by a graduate student, it must come as a recommendation from the Graduate Program Director in the department. The recommendation must state if the undergraduate course is an additional requirement for the program (must obtain B- or better) or if the course is extra to the program (will be flagged as such on the record and fees will be charged). See document at *www.mcgill.ca/gps/students/registration#coursereg*.

English and French language courses offered by the French Language Centre (Faculty of Arts) or the School of Continuing Studies may not be taken for coursework credits toward a graduate program.

All substitutions for coursework in graduate programs, diplomas, and certificates must be approved by GPS.

Courses taken at other institutions to be part of the requirements of a program of studies must be approved by GPS before registration. Double counting is not permitted.

28.6 Graduate Admissions and Application Procedures

Website: *www.mcgill.ca/gradapplicants*
Email: *servicepoint@mcgill.ca*

Deadline: Admission to graduate studies operates on a rolling basis; complete applications and their supporting documentation must reach departmental offices on or before the Date for Guaranteed Consideration specified by the department. To be considermust display onstudent, it must

GMAT: Graduate Management Aptitude Test (see *section 16.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 16.6.4: Admission Tests*)

Interview: a conversation between the applicant and a McGill representative, using a structured, standardized approach to allow for comparison and analysis of responses from all applicants interviewed; in person, via telephone,

verall (no less than 20 in each of the four 550 * The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

2.

4.

5.

6. xcel London Test of English – Le el 5 – with an o erall grade of at least “P ”

w y in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of

Applications cannot be considered if test results

Revised – July 2008

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying Program for a master’s. The under vel courses to be taken in a

gistered in graduate studies, **b ee**

gree program must apply for admission by the Dates for Guaranteed Consideration. Successful completion of the work in the Qualifying Program (B- in all courses) does not automatically entitle the student to proceed toward a degree. Qualifying year students must apply for admission to the program for which they seek qualification.

In cases where a department recommends a change of re Year (W **students must ee program by the or Guaranteed Consideration**. A Qualifying year applicant admitted to a W all term as his/her second term of studies.

Students who are ineligible for a Qualifying Program may apply to the ay second term oy appte-67.52 4ust4.

3.

7.

Qualifying Program will be prescribed by the department concerned.

that the student be reinstated, stipulating any conditions for reinstatement that it deems appropriate. If the student's department chooses not to recommend reinstatement, the student may appeal to the Associate Dean (Graduate and Postdoctoral Studies). The decision of the Associate Dean (Graduate and Postdoctoral Studies) shall be final and not subject to further appeal.

Revision, December 2012. End of revision.

Reinstatement fees will be char

28.8.1 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.).

28.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students' Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfil the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—on the web at *www.mcgill.ca/gps/postdocs/fellows/letter*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see *section 16.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 3.5: Health and Parental/Familial Leave of Absence Policy*). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department.

   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. 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 in the *Handbook on Student Rights and Responsibilities* ("Green Book"), available at *www.mcgill.ca/secretariat/policies/students*.

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

   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

   iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

   v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

28.8.4 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 *Programs, Courses and University Regul.lIens*

The Master of Music degree (M. Mus.) is available in Composition, Performance, and Sound Recording. Specializations offered within the performance option are: piano, guitar

section 28.11.1.9: Master of Arts (M.A.); Music — Musicology (Thesis) — Gender and Women's Studies (45 credits)

This program is open to students who qualify for the M.A. in Musicology (thesis option) who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. Musicology requirements are augmented by participation in a Graduate Feminism Symposium that engages with a diverse array of critical and empirical perspectives. The program draws on the resources of the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University. Supporting music faculty has interests

section 28.11.1.24

See *section 16.6.3: Application Procedures (for All Admissions Starting Summer 2013)* for detailed application procedures.

28.11.1.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Submissions appropriate to area of specialization (*www.mcgill.ca/music/future-students/graduate/entrance-requirements*)
- All M.Mus. applicants in conducting and female voices will be required to submit recordings for pre-selection. All D.Mus. Performance Studies and Diploma in Professional Performance applicants will be required to submit a DVD for pre-selection. Following a review of these DVDs, selected applicants will be invited to attend a live audition (*www.mcgill.ca/music/future-students/graduate/audition-requirements*).
- $60 audition fee for performance degrees

28.11.1.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 1	Fall: Dec. 1	Fall: Dec. 1
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 2012. End of revision.

28.11.1.4 Schulich School of Music Faculty

Dean, Schulich School of Music

Sean Ferguson

Director, Graduate Studies

Eleanor Stubley

Chairs

Jean Lesage – *Department of Performance*

Christoph Neidhöfer – *Department of Music Research*

Associate Dean (Research and Administration)

Julie Cumming

Associate Dean (Academic and Student Affairs)

Sara Laimon

Professors

William Caplin; B.M.(USC), M.A., Ph.D.(Chic.) (*James McGill Professor*)

Brian Cherney; B.Mus., M.Mus., Ph.D.(Tor.)

Kevin Dean; B.M.E.(Iowa), M.Mus.(Miami)

Associate Professors

Theodore Baskin; B.Mus.(Curtis), M.Mus.(Auck.), Principal Oboe, Montreal Symphony

Tom Beghin; Diplôme Supérieur(Louvain), M.A., D.M.A.(C'nell)

Denys Bouliane; B.Mus., M.Mus.(Laval), Graduate, Hochschule für Musik(Hamburg)

David Brackett; B.A.(Calif.-Santa Cruz), M.M.(New England Cons.), D.M.A.(C'nell)

Alain Cazes; Premier Prix(Cons. de Montréal)

Carolyn Christie; B.Mus.(McG.), Montreal Symphony

Julie Cumming; B.A.(Col.), M.A., Ph.D.(Calif., Berk.)

Martha de Francisco; Diploma(Musikkhochschule, Detmold)

Philippe Depalle; B.Sc.(Paris XI and ENS Cachan), D.E.A.(Le Mans and ENS Cachan), Ph.D.(Le Mans & IRCAM)

Sean Ferguson; B.Mus.(Alta.), M.Mus., D.Mus.(McG.)

Gordon Foote; B.Sc., M.A.(Minn.)

Ichiro Fujinaga; B.Mus., B.Sc.(Alta.), M.A., Ph.D.(McG.)

Matt Haimovitz; B.A.(Harv.)

Patrick Hansen; B.Mus.(Simpson), M.Mus.(Missouri)

Kyoko Hashimoto; B.A.(Tokyo), Professional Studies(Juilliard)

Alexis Hauser; Diplom(Konservatorium der Stadt, Wien)

Melissa Hui; B.Mus.(Br. Col.), M.F.A.(Calif. Inst. of Arts), D.M.A./M.M.A.(Yale)

Timothy Hutchins; Dip. L.G.S.M.(Guildhall), B.A.Hons.Mus.(Dal.), Principal Flute, Montreal Symphony

Jan Jarczyk; B.A., M.A.(Academy of Music, Cracow), Dip.(Berklee)

Abe Kestenberg

Richard King; B.Mus.(Dal.), M.Mus.(McG.)

Hank Knox; B.Mus., M.Mus.(McG.) (*William Dawson Scholar*)

Sara Laimon; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook)

Philippe Leroux; Premier Prix(Conservatoire National Supérieur de Musique et de Danse de Paris)

Jean Lesage; Concours, Diplôme d'études supérieures(Cons. de Montréal)

George Massenburg (*Dean's Chair in Music*)

Michael McMahon; B.Mus.(McG.), Graduate, Hochschule für Musik(Vienna)

Douglas McNabney; B.Mus.(Tor.), M.M.(W. Ont.), D.Mus.(Montr.)

Marina Mdi

Associate Professors

John Zirbel; B.Mus.(W

Adjunct Professors

John Roston; B.A., M.A.(McG.)

Marc-Pierre Verge; B.A., M.Sc.(Laval), Ph.D.(Eiden.)

Herbert Waltl

Faculty Lecturer

Lisa Lorenzino; B.Mus.(Tor.), B.Ed.(Sask.), M.A.(McG.), Ph.D.(Alta.)

28.11.1.5 Master of Music (M.Mus.); Music — Composition (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)

The thesis is a composition, accompanied by an analytical essay of approximately 20-30 pages.

MUGS 684	(6)	Master's Thesis Research 2
MUGS 685	(9)	Master's Thesis Research 3
MUGS 686	(12)	Master's Thesis Research 4

Required Courses (6 credits)

MUCO 622D1	(3)	Composition Tutorial
MUCO 622D2	(3)	Composition Tutorial

Complementary Courses (6 credits)

6 credits selected from the following courses:

MUCO 631	(3)	Seminar in Composition 1
MUCO 632	(3)	Seminar in Composition 2
MUCO 633	(3)	Seminar in Composition 3
MUCO 634	(3)	Seminar in Composition 4
MUCO 635	(3)	Seminar in Composition 5
MUCO 636	(3)	Seminar in Composition 6

Elective Courses (6 credits)

6 credits of graduate seminars, at the 500, 600, or 700 level, approved by the Department.

28.11.1.6 Master of Arts (M.A.); Music — Music Education (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Education.

MUGS 683	(3)	Master's Thesis Research 1
MUGS 684	(6)	Master's Thesis Research 2
MUGS 685	(9)	Master's Thesis Research 3
MUGS 686	(12)	Master's Thesis Research 4

Complementary Courses (15 credits)

15 credits of graduate seminars at the 500, 600, or 700 level, approv

MUHL 685	(3)	Seminar in Musicology 6
MUHL 692	(3)	Seminar in Music Literature 1

28.11.1.9 Master of Arts (M.A.); Music — Musicology (Thesis) — Gender and Women's Studies (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology and Musicology following transcript revie

MUSR 300D2	(3)	Introduction to Music Recording
MUSR 339	(3)	Introduction to Electroacoustics

One of:

MUMT 302	(3)	New Media Production 1
MUMT 306	(3)	Music and Audio Computing 1

From the Faculty of Science:

PHYS 224	(3)	Physics of Music

Required Courses (51 credits)

MUSR 629D1	(2)	Technical Ear Training
MUSR 629D2	(2)	Technical Ear Training
MUSR 667	(3)	Digital Studio Technology
		Digital/Analog

12 credits at the 500, 600, or 700 level, approved by the Department. Normally, 9 credits will be seminars in Music Theory selected from the following:

MUTH 652	(3)	Seminar in Music Theory 1
MUTH 653	(3)	Seminar in Music Theory 2
MUTH 654	(3)	Seminar in Music Theory 3
MUTH 655	(3)	Seminar in Music Theory 4
MUTH 656	(3)	Seminar in Music Theory 5
MUTH 657	(3)	Seminar in Music Theory 6

3 credits selected from the following:

MUTH 658	(3)	History of Music Theory 1
MUTH 659	(3)	History of Music Theory 2

Master of Arts (M.A.);Master of Ar

or 3 credits of graduate seminar at the 500, 600, or 700 level, on gender/women's issues, may be selected from within or outside the Department. The selection must be approved by the Department.

28.11.1.13 Master of Arts (M.A.): Music — Music Education (Non-Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Research Project (24 credits)

MUGS 614	(3)	Reading Course 1
MUGS 615	(3)	Reading Course 2
MUGS 635	(9)	Research Paper 1
MUGS 636	(9)	Research Paper 2

Required Courses (21 credits)

Seven 3-credit courses at the 500, 600, or 700 level approved by the Music Education Area, four of which must be in the Music Education Area.

With the approv

MUTH 659	(3)	History of Music Theory 2

28.11.1.16 Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses based on transcript review:

MUPD 560 Intro to Research Methods in Music

MUPG 210 Italian Diction

MUPG 211 French Diction

MUPG 212 English Diction

MUPG 213 German Diction

Two of:

MUHL 372 Solo Song outside Germany and Austria

MUHL 377 Baroque Opera

MUHL 387 Opera from Mozart to Puccini

MUHL 388 Twentieth-Century Opera

MUHL 390 The German Lied

Recital (12 credits)

MUPG 660	(12)	Solo Recital Project 1

Required Courses (27 credits)

MUPG 611	(3)	Directed Voice Teaching 1
MUPG 612	(3)	Directed Voice Teaching 2
MUPG 620	(4)	Performance Tutorial 1
MUPG 621	(4)	Performance Tutorial 2
MUPG 622	(4)	Performance Tutorial 3
MUPG 650	(3)	Voice Lecture - Demonstration
MUPG 693	(3)	Vocal Treatises and Methods
MUPG 694	(3)	Vocal Physiology for Singers

Complementary Courses (8 credits)

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

MUPG 590	(3)	Vocal Styles and Conventions
MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One of the following:

MUIN 600	(2)	Vocal Repertoire Coaching 1
MUIN 601	(2)	Vocal Repertoire Coaching 2

All courses at the 600 level with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, and MUTH, and MUHL 591D1/D2 Paleography have been approved as electives for M.Mus. students in Performance.

28.11.1.17 Master of Music (M.Mus.); Performance: Jazz Performance (Thesis) (45 credits)

Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUHL 393 History of Jazz

MUJZ 440D1/MUJZ 440D2 Advanced Jazz Composition

MUJZ 461D1/MUJZ 461D2 Advanced Jazz Arranging

MUJZ 493 Jazz Performance Practice

Required Courses (12 credits)

MUIN 626	(3)	Jazz Performance/Composition Tutorial 1
MUIN 627	(3)	Jazz Performance/Composition Tutorial 2
MUIN 628	(3)	Jazz Performance/Composition Tutorial 3
MUJZ 601	(3)	Jazz Pedagogy

Complementary Courses (22 credits)

22 credits from one of the following options, A, B, or C:

Option A - Jazz Performance

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUPG 651	(9)	Performance/Composition Recital Project
MUPG 659	(9)	Performance in Recording Media

Option B - Jazz Composition and Arranging

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUPG 652	(9)	Jazz Ensemble Recital Project
MUPG 659	(9)	Performance in Recording Media

Option C - Jazz Orchestra

4 credits from:

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUJZ 644	(2)	Jazz Repertoire Project 1
MUJZ 645	(2)	Jazz Repertoire Project 2

and 18 credits from:

MUPG 651	(9)	Performance/Composition Recital Project
MUPG 652	(9)	Jazz Ensemble Recital Project

Elective Courses (11 credits)

5 credits of ensemble courses with the prefix MUEN (4 credits must be in JAZZ related ensembles)

6 credits from one of the following options, A, B, or C:

Option A - Jazz Performance

One 3-credit graduate seminar at the 600 level approved by the Department.

And

3 credits of ensemble courses with the prefix MUEN.

Option B - Jazz Composition and Arranging:

Two 3-credit graduate seminars at the 600 level approved by the Department.

Option C - Jazz Orchestral:

One 3-credit graduate seminar at the 600 level approved by the Department.

And

3 credits of ensemble courses with the prefix MUEN.

28.11.1.18 Master of Music (M.Mus.); Performance: Early Music (Thesis) (45 credits)

Voice, Baroque Flute, Recorder, Baroque Oboe, Baroque Bassoon, Baroque Violin, Baroque Viola, Baroque Cello, Early Music Clarinet, Viola da Gamba, Organ, Harpsichord, Lute, Early Brass, Fortepiano

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUPD 560 - Intro to Research Methods in Music

3 credits from the following:

MUHL 377 - Baroque Opera (3 credits)

MUHL 380 - Medieval Music (3 credits)

MUHL 381 - Renaissance Music (3 credits)

MUHL 382 - Baroque Music (3 credits)

MUHL 383 - Classical Music (3 credits)

MUHL 395 - Keyboard Literature before 1750 (3 credits)

MUPP 381 - Topics in Performance Practice (3 credits)

MUTH 426 - Topics in Early Music Analysis (3 credits)

Fortepiano students; MUHL 366 - The Era of the Fortepiano (3 credits)

Harpsichord students; 6 credits:

MUPG 272D1/D2 - Continuo (4 credits) and

MUPG 372 D1/D2 - Continuo (2 credits)

Organ/Lute students; MUPG 272D1/D2 - Continuo (4 credits)

Voice students; 6 credits of the following:

MUPG 210 - Italian Diction (or equivalent) (2 credits)

MUPG 211 - French Diction (or equivalent) (2 credits)

MUPG 212 - English Diction (or equivalent) (2 credits)

MUPG 213 - German Diction (or equivalent) (2 credits)

Thesis Performance (27 credits)

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622	(3)	Performance Tutorial 3
MUPG 600*	(9)	Recital Project 1

* Solo Recital only

9 credits from:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 604	(6)	Chamber Music Recital
MUPG 605	(3)	Recording Project
	(3)	Interdisciplinary Project 1

* If not already taken

** Organ only

Complementary Performance (9 credits)

Instruments:

3 terms of:

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 599	(1)	Jazz Studio Orchestra

Winds/Brass:

2 credits from the following (may be taken more than once):

MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort

1 credit from:

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 571	(1)	Contemporary Improvisation Ensemble
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 599	(1)	Jazz Studio Orchestra

Percussion:

3 credits from (may be taken more than once unless otherwise indicated):

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 571	(1)	Contemporary Improvisation Ensemble
MUEN 598	(1)	Percussion Ensembles

* MUEN 571 may only be taken once.

Harp:

3 credits from (may be taken more than once unless otherwise indicated):

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 571	(1)	Contemporary Improvisation Ensemble

* MUEN 571 may only be taken once.

OR

Guitar:

Three terms of:

MUEN 562	(1)	Guitar Ensemble

6 credits from the following:

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
	(1)	Multiple Ensemble 1

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
	(1)	Collaborative Piano Repertoire 1: Song

Thesis Performance (27 credits)

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622	(3)	Performance Tutorial 3
MUPG 600	(9)	Recital Project 1

9 credits from the following:

MUPG 601*	(9)	Recital Project 2
MUPG 602*	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 604	(6)	Chamber Music Recital
MUPG 605	(3)	Recording Project
MUPG 606**	(3)	Interdisciplinary Project 1
MUPG 607**	(6)	Interdisciplinary Project 2

* Students may take either MUPG 601 or MUPG 602.

** Students may take either MUPG 606 or MUPG 607.

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
	edits)MUGS p6e	Piano Seminar 1

MUPG 614	(3)	Quick Study
MUPG 646	(1)	Score- and Sight-Reading 1
MUPG 647	(1)	Score- and Sight-Reading 2
MUPG 670	(2)	Advanced Continuo 1
MUPG 671	(2)	Advanced Continuo 2
MUPG 687	(1)	Collaborative Piano Repertoire 1: Song
MUPG 688	(1)	Collaborative Piano Repertoire 2: Instrumental
MUPG 689	(1)	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

OR

6 credits from the following (courses below may be taken more than once):

MUEN 560	(1)	Chamber Music Ensemble
MUEN 561	(1)	2nd Chamber Music Ensemble
MUEN 568	(1)	Multiple Ensemble 1
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 582	(1)	Piano Ensemble Seminar 2
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass
MUEN 588	(1)	Multiple Ensemble 2
MUEN 590	(2)	McGill Winds
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 597	(2)	Orchestral Ensembles
MUEN 688	(2)	Multiple Ensembles

28.11.1.22 Master of Music (M.Mus.); Performance: Opera and Voice (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses based on transcript review:

MUPD 560 - Intro to Research Methods in Music

MUPG 210 - Italian Diction

MUPG 211 - French Diction

MUPG 212 - English Diction

MUPG 213 - German Diction

One of:

MUHL 372 - Solo Song Outside Germany and Austria

MUHL 377 - Baroque Opera

MUHL 387 - Opera from Mozart to Puccini

MUHL 388 - Opera after 1900

MUHL 390 - The German Lied

Thesis Performance (27 credits)

9 credits:

MUIN 620	(3)	Performance Tutorial 1

MUIN 621	(3)	Performance Tutorial 2
MUIN 622	(3)	Performance Tutorial 3

And

Opera Performance Thesis (18 credits)

9 credits:

MUPG 600*	(9)	Recital Project 1

* Principal Opera Role only; by audition.

9 credits from:

MUPG 601*	(9)	Recital Project 2
MUPG 602**	(6)	Recital Project 3
MUPG 603***	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 614	(3)	Quick Study

* Principal Opera Role only; by audition.

** Featured Opera Role only; by audition.

*** Supporting Opera Role only; by audition.

OR

Voice Thesis Performance (18 credits)

9 credits:

MUPG 600*	(9)	Recital Project 1

* Solo Recital only.

9 credits from:

MUPG 601*	(9)	Recital Project 2
MUPG 602**	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 607	(6)	Interdisciplinary Project 2
MUPG 614	(3)	Quick Study

* Solo Recital; or Principal Opera Role by audition.

** Solo Recital; or Featured Opera Role by audition.

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
MUIN 610	(1)	Vocal Coaching 1
MUIN 611	(1)	Vocal Coaching 2
MUIN 612	(1)	Vocal Coaching 3

Complementary Seminars (9 credits)

3 credits from the following:

MUPG 590*	(3)	Vocal Styles and Conventions
MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

MUPG 590*	(3)	Vocal Styles and Conventions
MUPG 691	(3)	Vocal Ornamentation
MUPG 693	(3)	Vocal Treatises and Methods
MUPG 694	(3)	Vocal Physiology for Singers

* If not already taken.

Complementary Performance (6 credits)

Opera:

Two terms of:

MUEN 696	(2)	Opera Theatre

2 credits of:

MUEN 696	(2)	Opera Theatre

OR

Two terms of:

MUEN 579	(1)	Song Interpretation 2

Or

Voice:

6 credits from (may be taken more than once):

MUEN 553	(1)	Vocal Chamber Ensemble
MUEN 554	(2)	Opera Excerpts
MUEN 560	(1)	Chamber Music Ensemble
MUEN 572	(2)	Cappella Antica
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 593	(2)	Choral Ensembles

MUEN 696	(2)	Opera Theatre

28.11.1.23 Master of Music (M.Mus.); Performance: Organ and Church Music (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to tak Music

MUTH 602	(3)	Keyboard Modal Counterpoint
MUTH 604	(3)	Keyboard Tonal Counterpoint

or one graduate 3-credit seminar approved by the Department.

Complementary Performance (9 credits)

9 credits from the following:

MUEN 560*	(1)	Chamber Music Ensemble
MUEN 561*	(1)	2nd Chamber Music Ensemble
MUEN 573*	(2)	Baroque Orchestra
MUEN 580*	(1)	Early Music Ensemble
MUEN 593*	(2)	Choral Ensembles
MUEN 594*	(2)	Contemporary Music Ensemble
MUEN 597*	(2)	Orchestral Ensembles
MUHL 591D1**	(1.5)	Paleography
MUHL 591D2**	(1.5)	Paleography
MUPG 672D1	(1.5)	Liturgical Improvisation
MUPG 672D2	(1.5)	Liturgical Improvisation
MUPG 674	(3)	Project in Choral Conducting
MUPG 679	(3)	Liturgical Improvisation 2
MUTH 602**	(3)	Keyboard Modal Counterpoint
MUTH 604**	(3)	Keyboard Tonal Counterpoint

* May be taken more than once.

** If 3u Tm((3))Tj1 0 0m((2))Tj1 0 0 1 70.52 537.5* If 3u Tm950

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622	(3)	Performance Tutorial 3
MUPG 600	(9)	Recital Project 1

9 credits from the following:

MUPG 601	(9)	Recital Project 2
MUPG 602*	(6)	Recital Project 3
MUPG 603**	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1

* Solo Recital.

** Concerto only.

Required Course

MUGS 605	(0)	Graduate Performance Colloquium

Complementary Semiars (9 credits)

One of the following:

MUPG 680	(2)	Rehearsal Techniques for Conductors 2

28.11.1.25 Graduate Diploma in Professional Performance (30 credits)

Two full-time terms of residence are required.

Required Courses (15 credits)

Revision, August 2012. Start of revision.

MUIN 634	(6)	Performance Tutorial 6
MUIN 635	(6)	Performance Tutorial 7
MUPG 640	(3)	Media Project

Revision, August 2012. End of revision.

Complementary Courses (12 credits)

12 credits from the following:

MUPG 641	(3)	Performance Project 1
MUPG 642	(6)	Performance Project 2
MUPG 643	(6)	Performance Project 3
MUPG 644	(9)	Performance Project 4
MUPG 645	(12)	Performance Project 5

Elective Course (3 credits)

3 credits of graduate seminar, ensemble, or special project at the 500 or 600 level approved by the Department.

28.11.1.26 Doctor of Music (D.Mus.); Music — Composition

A minimum of two years' residence is required beyond the M.Mus. in Composition, or its equivalent. Details concerning the comprehensive examinations, composition performance, thesis, and academic regulations are available from the Graduate Coordinator, Schulich School of Music or from the Music Graduate Handbook (http://www.mcgill.ca/music/current-students/graduate/graduate-music-handbook).

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis

The thesis is a musical composition of major dimensions together with a written analysis of the work. The thesis must be defended in an oral examination.

Required Courses (12 credits)

MUGS 701	(0)	Comprehensive Examination Part 1
MUGS 702	(0)	Comprehensive Examination Part 2

12 credits (two years) of:

MUCO 722D1	(3)	Doctoral Composition Tutorial
MUCO 722D2	(3)	Doctoral Composition Tutorial

Elective Courses (12 credits)

Four approved 3-credit graduate electives or the equivalent.

Composition Performance

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

28.11.1.27 Doctor of Music (D.Mus.); Music — Performance Studies

A minimum of two years' residence is required beyond the M.Mus. in Performance, or its equivalent.

Details concerning the comprehensive examinations, composition performance, thesis and academic regulations are available from the Graduate Studies Coordinator, Schulich School of Music or from the Music Graduate Handbook (http://www.mcgill.ca/music/current-students/graduate/graduate-music-handbook).

Thesis

Recitals (36 credits)

MUPG 760	(12)	Doctoral Recital 1
MUPG 767	(12)	Doctoral Recital 2
MUPG 770	(12)	Doctoral Lecture - Recital Project

Required Courses (32 credits)

24-32 credits

MUGS 701	(0)	Comprehensive Examination Part 1
MUGS 702	(0)	Comprehensive Examination Part 2

Six terms of one hour per week of Performance T

28.11.1.28 Doctor of Philosophy (Ph.D.); Music — (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

The Ph.D. requires a minimum of three years of full-time resident study (six full-time terms) beyond a bachelor's degree. A candidate who holds a master's degree in the area of specialization may, on the recommendation of the Department, be permitted to count the work done for the master's degree as the first year of resident study.

Details concerning the comprehensive examinations, thesis, and academic regulations are available from the Graduate Studies Coordinator, Schulich School of Music or from the Music Graduate Handbook (http://www.mcg7 3ehe8sic or fr.mate /currTj- 0 0Tjs/gndbook /gndbook -mate -hhttp://)Tw1 0 07.41 67-463 1 68.52

Composition Performance

Composition applicants only:

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

28.11.1.29 Doctor of Philosophy (Ph.D.); Music — Gender and Women's Studies

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must sho

29.3 Important Dates 2012–2013

F

Degree		Prerequisites
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 22.11.1.3: Law Admission Requirements and Application Procedures*. At least a bachelor's degree from a recognized university. See *section*

Program Areas	Thesis/Non-Thesis	Options
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	N/A
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)

Program Areas	Thesis/Non-Thesis	Options
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)

A program leading to the degree of Master of Business Administration (M.B.A.) is offered in the following concentrations:

Program	Thesis/Non-Thesis	Options
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A

Master of Education (M.Ed.)

Program	Thesis/Non-Thesis	Options
Educational Psychology	Non-Thesis	N/A

Master of Engineering (M.Eng.)

Program	Thesis/Non-Thesis	Options
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)

Master of Laws (LL.M.)

Program	Thesis/Non-Thesis	Options
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)

Master of Library and Information Studies (M.L.I.S.)

The Graduate School of Library and Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.

Program	Thesis/Non-Thesis	Options
Information Studies	Non-Thesis	N/A

Master of Music (M.Mus.)

Program	Thesis/Non-Thesis	Options
Music – Composition	Non-Thesis	N/A

Program	Thesis/Non-Thesis	Options
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A

Master of Sacred Theology (S.T.M.)

A program leading to the degree of Sanctae Theologiae Magister (S.T.M.) is given in the Faculty of Religious Studies. This degree is primarily for those who intend to enter the ministry of the Christian Church or another religious institution, or to proceed to teaching in schools. A Master of Arts program (thesis and non-thesis) is also available.

Program	Thesis/Non-Thesis	Options
Religious Studies	Non-Thesis	N/A

Master of Science (M.Sc.)

Program Areas	Thesis/Non-Thesis	Options
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment (Thesis)
Biochemistry	Thesis	Bioinformatics, Chemical Biology (Thesis)
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology

N.96 Tm(rbi9.13iThesis)Tj1 0 0 1(rbi9.13iT2 1 wC2.4 Tm1lTm(Bioresource Engineering)Tj1)Tj1Pc70.14 Tm(Chemistry)Tj1 0 0 11Pc70.14 1.653 512.62 T

Program Areas	Thesis/Non-Thesis	Options
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)

This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.

Program	Thesis/Non-Thesis	Options
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Chemistry	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis (Project), Non-Thesis (Practicum)	N/A
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

Master of Social Work (M.S.W.)

The M.S.W. degree represents a second level of professional study in which students build competence in a chosen field of practice.

Program	Thesis/Non-Thesis	Options
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

Master of Urban Planning

Program	Options	Offered by Faculty/School
Cell Biology	N/A	Faculty of Medicine
Chemical Engineering	N/A	Faculty of Engineering
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	N/A	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences

Program	Options	Offered by Faculty/School
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts

Joint Doctor of Philosophy Degrees

The following joint Ph.D. programs are offered:

Nursing (McGill / Université de Montréal)
Management (McGill / Concordia / H.E.C. / UQAM)
Social Work (McGill / Université de Montréal)

***Ad Hoc* Doctor of Philosophy Degrees (Ph.D. (*Ad Hoc*))**

Several departments offer the possibility of directly entering a Ph.D. program on an *ad hoc* basis, or, with the permission of the supervisor and the approval of the Graduate Program Director, exceptional students may transfer from the master's program to the *ad hoc* Ph.D. program.

Program	Options	Offered by Faculty/School
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

29.4.5 Postdoctoral Research

See *section 16.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

29.4.6 Graduate Diplomas and Graduate Certificates

The graduate diplomas and graduate certificates listed below are programs of study under the academic supervision of Graduate and Postdoctoral Studies. The prerequisite for a diploma or certificate is an undergraduate degree in the same discipline.

Graduate Diplomas are offered in:	
Clinical Research	Professional Performance

Graduate Diplomas are offered in:	
Epidemiology	Public Accountancy (Chartered Accountancy)
Library and Information Studies	Registered Dietician Credentialing (R.D.)
Mining Engineering	School/Applied Child Psychology (Post-Ph.D.)
Neonatal Nurse Practitioner	Surgical Health Care Research
Primary Care Nurse Practitioner	

These diploma programs consist of at least two terms of full-time study or the equivalent.

Graduate Certificates are offered in:	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	Theory in Neonatology

All graduate regulations apply to graduate diploma and graduate certificate candidates.

Note: The School of Continuing Studies offers graduate diplomas and graduate certificates that are not under the academic supervision of Graduate and Postdoctoral Studies. To see a list of the programs offered refer to the School of Continuing Studies *Programs, Courses and University Regulations* publication available at *www.mcgill.ca/study*.

29.5 Program Requirements

29.5.1 Master's Degrees

Residence Requirements – Master's Degrees

Refers to the number of terms (or years) students must be registered on a full-time basis to complete their program. Students are NOT permitted to graduate until they have fulfilled the residence requirement (or paid the corresponding fees) in their program.

- The following master's programs have a minimum residence requirement of **three full-time terms**: M.Arch, M.A., M.Eng., LL.M., M.Mus. (**except** M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (**except** M.Sc.A. in Communication Sciences and Disorders).
- The following master's programs have a **minimum** residence requirement of **four full-time terms**: M.L.I.S.; M.Mus. in Sound Recording; M.U.P.; M.A. (60 credits – Counselling Psychology – thesis; 78 credits – Educational Psychology); M.A. Teaching and Learning – Non-Thesis; M.Sc.A. in Communication Sciences and Disorders; S.T.M., Religious Studies.
- The residence requirement for the master's program in Education (M.Ed.); Library and Information Studies (M.L.I.S.); Management (M.B.A.); Religious Studies (S.T.M.); M.A. Counselling Psychology – Non-Thesis; M.A. Teaching and Learning – Non-Thesis; M.Sc. in Public Health – Non-Thesis; M.Sc.A. Nursing; M.Sc.A. Occupational Therapy; M.Sc.A. Physical Therapy; and students in part-time programs is determined on a per course basis. Residence requirements are fulfilled when students complete all course requirements in their respective programs.
- For master's programs structured as Course, Project or Non-Thesis options where the program is pursued on a part-time basis, residence requirements are normally fulfilled when students complete all course requirements in their respective programs (minimum 45 credits or a minimum of three full-time terms) and pay the fees accordingly.

These designated periods of residence represent minimum time requirements. There is no guarantee that the work for the degree can be completed in this time. Students must register for such additional terms as are needed to complete the program.

Coursework – Master's Degrees

Program requirements are outlined in the relevant departmental sections of the Graduate and Postdoctoral Studies *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

The department concerned will examine the student's previous training and then decide which of the available courses in the area of specialization or related fields are required to bring the candidate to the proper level for the master's degree. Due account will be taken of relevant courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

The candidate is required to pass, with a grade of B- or better, all those courses that have been designated by the department as forming a part of the program, including additional requirements.

Students taking courses at another university must obtain a minimum grade of B- (65%) if the course is to be credited toward their McGill degree. In the cases where only a letter grade is used, a B- is the minimum passing grade and no equivalent percentage will be considered. In the cases where only a percentage grade is used, 65% is the minimum passing grade.

If courses were not used for a degree, they could be **credited** toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an **exemption** is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

Research and Thesis – Master's Degrees

All candidates for a research degree must present a thesis based on their own research. The total number of credits allotted to the thesis in any master's program must not be less than 24. The title of the thesis and names of examiners must be forwarded on a *Nomination of Examiners* form, in accordance with the dates on *www.mcgill.ca/importantdates*, through the chair of the department concerned at the same time as the thesis is submitted to Graduate and Postdoctoral Studies. A thesis for the master's degree, while not necessarily requiring an exhaustive review of work in the particular field of study, or a great deal of original scholarship, must show familiarity with previous work in the field and must demonstrate the ability to carry out research and to organize results, all of which must be presented in good literate style. The thesis will not normally exceed 100 pages; in some disciplines, shorter texts are preferred. Guidelines and deadlines are available at *www.mcgill.ca/gps/thesis/guidelines*.

Language Requirements – Master's Degrees

Most master's degree programs do not include language requirements, but candidates who intend to proceed to a doctoral degree should take note of any language requirements and are strongly advised to take the examinations in at least one language while working for the master's degree.

29.5.2 Doctoral Degrees

Residence Requirements – Doctoral

Refers to the numbers of terms (or years) students must be registered on a full-time basis to complete their program. Students are not permitted to graduate until they have fulfilled the residence requirement (or paid the corresponding fees) in their program.

Candidates entering Ph.D. 1 must follow a program of at least three years' residency at the University; this is a minimum requirement, and there is no guarantee that the work of the degree can be completed in this time, but students are expected to complete within the maximum specified period. Only exceptional candidates holding a bachelor’s degree will be considered for direct admission to Ph.D. 1 level.

It is required that candidates spend the greater part of each summer working on their theses, and those who do not do so are unlikely to complete a satisfactory thesis in the prescribed minimum time (see *section 16.8.3: Vacation Policy for Graduate Students and Postdocs*).

A student who has obtained a master's degree at McGill University or at an approved institution, in a relevant subject and is proceeding to a Ph.D. degree will, on the recommendation of the department, be admitted to Ph.D. 2; in this case, the residency requirement for the program is two years.

In the doctoral program, students must be registered on a full-time basis for one more year after completesponding fdepidenc

Candidates are advised to discharge their language requirements as early in their program as possible.

Students expecting to enrol in Professional Corporations in the province of Quebec are advised to become fluent in both spoken and written French.

Courses in French language are available at the English and French Language Centre. The teaching is intensive and class sizes are kept small. While

but not limited to, transcripts, diplomas, letters of reference, and test scores, become the property of McGill University and will not be returned to the applicant or issuing institution under any circumstance.

A **non-refundable** fee of $100 in Canadian funds **must** accompany each application; otherwise, **it cannot be submitted**. This sum must be paid by credit card when submitting the online application form and is non-refundable. Candidates for Special, V

Curriculum Vitae: an overview of the applicant's experience and other qualifications, including employment, academic credentials, publications, contributions, and significant achievements.

GMAT: Graduate Management Aptitude Test (see *section 16.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 16.6.4: Admission Tests*)

Interview: a conversation between the applicant and a McGill representative, using a structured, standardized approach to allow for comparison and analysis of responses from all applicants intervie

Competency in English		
86 overall (no less than 20 in each of the four component scores) N.B. an institutional version of the TOEFL is not acceptable.	550	* The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

2. IELTS (International English Language Testing System): a band score of 6.5 or greater.
3. MELAB (Michigan English Language Assessment Battery): a grade of 85% or higher.
4. University of Cambridge ESOL Certificate in Advanced English (CAE): a grade of “B” (Good) or higher.
5. University of Cambridge ESOL Certificate of Proficiency in English (CPE): a grade of “C” (P

that the student be reinstated, stipulating any conditions for reinstatement that it deems appropriate. If the student's department chooses not to recommend reinstatement, the student may appeal to the Associate Dean (Graduate and Postdoctoral Studies). The decision of the Associate Dean (Graduate and Postdoctoral Studies) shall be final and not subject to further appeal.

Revision, December 2012. End of revision.

Reinstatement fees will be charged in addition to the fees due for the academic session into which the student has been reinstated. The amount of the reinstatement fees is the tuition portion of fees owed for all unregistered terms, up to a maximum of two years just prior to the term of reinstatement.

If an individual has not registered for a period of more than two years, their student file will be closed. These individuals and those who have formally withdrawn may be considered for admission. Applicants' admission applications will be considered as part of the current admission cycle, in competition with other people applying during that cycle and in accordance with current graduate admission procedures and policies.

Procedure: Requirements for completion of the program will be evaluated. Some of these requirements may need to be redone or new ones may be added. Applicants must inquire about the fees that will be charged.

Revised – Council of February 9, 2004.

29.6.11 Deferral of Admission

Under exceptional circumstances, an admission for a particular semester can be considered for a deferral. This can be considered only if the student has not registered. If the student has already registered, no deferral can be granted. The student must withdraw from the University and apply for admission to a later term.

29.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/students/funding/students-postdocs*

The Fellowships and Awards section of Graduate and Postdoctoral Studies provides processing services for many sources of support for Canadian and non-Canadian students, both new to McGill and continuing. Further information on these and other sources of funding can be found in various publications on the Fellowships and Awards web pages. The *Graduate Fellowships and Awards Calendar* lists all internal awards as well as numerous external awards.

Entrance Fellowships are awarded on the basis of the application for admission, upon nomination by academic departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

Research assistantships, teaching assistantships, and stipends from professors' research grants are handled by individual academic departments at McGill. Fellowships, assistantships, and stipends are used to make funding packages for graduate students. All assistantship and stipend inquiries should be directed to departments.

A small number of citizens from countries whose governments have entered into agreements on tuition fees with Quebec may be exempted from the supplemental tuition fees normally required of international students. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp?page=fiche&id=1039*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. The list of organizations where students should apply can be accessed from this website.

Differential Fee Waivers (DFWs) for international students provide eligible non-Canadian graduate students with waivers of the international tuition fee supplement. There are no application forms for differential fee waivers, since these are awarded on the basis of departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

29.8 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 required by postdoctoral scholars during their studies at McGill and should be periodically consulted, along with other sections and related publications.

29.8.1 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.).

29.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students' Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfil the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—on the web at *www.mcgill.ca/gps/postdocs/fellows/letter*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see *section 16.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 3.5: Health and Parental/Familial Leave of Absence Policy*). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

   iv. Postdocs with full responsibility for teaching a course should be e

- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Health and Parental/Familial Leave of Absence Policy
- Failure Policy
- Guideline on Hours of Work

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

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees* for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

29.11 Academic Programs

Financial assistance in the form of research stipends and teaching assistantships is available for all qualified graduate students.

section 29.11.1.5: Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) (45 credits)

Our program applies mathematics, physics, computing, and sometimes chemistry to study the atmosphere and/or oceans. The ideal student would therefore have a strong quantitative background in one or more of these fields. Although some of our students have undergraduate knowledge of meteorology or physical oceanography, such background is not necessary to succeed in the program. McGill offers the only program in Canada that includes both atmospheric and oceanic sciences. Students benefit from a large professor-to-student ratio, access to state-of-the-art computing, remote sensing, and atmospheric chemistry laboratory equipment. The Department also has close ties with Environment Canada's numerical weather prediction centre in Dorval, Quebec. Most of our incoming M.Sc. students choose this (default) option. It allows considerable flexibility as to the choice of research topics, and gives students both a strong classroom knowledge of the subject as well as the opportunity to choose from a variety of thesis research projects. Students who do not choose to continue in academia find employment in a variety of areas and places; for example, working with Environment Canada as research associates or weather forecasters.

section 29.11.1.6: Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)

The graduate option in Environment provides students with an appreciation for the role of science in informing decision-making in the environment sector, including the influence of political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students following the Environment option must first be accepted by the Department of Atmospheric and Oceanic Sciences, and then by the McGill School of Environment (MSE) before an offer of admission will be made by the University. Environment option students require either a single supervisor with a joint appointment in Atmospheric and Oceanic Sciences and the MSE, or co-supervisors, one each in Atmospheric and Oceanic Sciences and the MSE.

section 29.11.1.7: Doctor of Philosophy (Ph.D.); Atmospheric and Oceanic Sciences

Our program applies mathematics, physics, computing, and sometimes chemistry to study the atmosphere and/or oceans. The ideal student would therefore have a strong quantitative background in one or more of these fields. Although some of our students have undergraduate knowledge of meteorology or physical oceanography, such background is not necessary to succeed in the program. McGill offers the only program in Canada that includes both atmospheric and oceanic sciences. Students benefit from a large professor-to-student ratio, access to state-of-the-art computing, remote sensing, and atmospheric chemistry laboratory equipment. The Department also has close ties with Environment Canada's numerical weather prediction centre in Dorval, Quebec. Students who do not choose to continue in academia find employment in a variety of areas including research careers at government labs such as Environment Canada.

29.11.1.3 Atmospheric and Oceanic Sciences Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.1.3.1 Admission Requirements

Applicants for the M.Sc. program must meet the general requirements of Graduate and Postdoctoral Studies and hold a bachelor's degree with high standing in atmospheric science, physics, mathematics, engineering, or equivalent.

The normal requirement for admission to the Ph.D. program is an M.Sc. degree in atmospheric science, physical oceanography, or related discipline with acceptably high standing. Students without a master's degree in Atmospheric Science (Meteorology) or Ph

Complementary Courses (21 credits)

Must complete or have completed the following courses or equivalent:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Physics
ATOC 619*	(3)	Advanced Atmospheric Chemistry
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	(3)	Mesoscale Meteorology
CHEM 619*	(3)	Advanced Atmospheric Chemistry

* Students may select either ATOC 619 or CHEM 619.

Or other courses at the 500 level or higher recommended by the Department's Graduate Program Director.

Students with a strong background in atmospheric or oceanic science, or a Diploma in Meteorology, will take at least the 7 credit minimum. Students with no previous background in atmospheric or oceanic science must take the 20 credit maximum.

29.11.1.6 Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)

Thesis Courses (24 credits)

ATOC 691	(3)	Master's Thesis Literature Review
ATOC 692	(6)	Master's Thesis Research 1
ATOC 694	(3)	Master's Thesis Progress Report and Seminar
ATOC 699	(12)	Master's Thesis

Students registered in M.Sc. programs are expected to regularly attend both the student seminar series (ATOC 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (15 credits)

12 credits of Departmental courses chosen from the following:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics

29.11.2 Biology

29.11.2.1 Location

Department of Biology

section 29.11.2.6: Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)

and lay audiences. Coordinated and administered through the McGill School of Environment (MSE), the Environment option is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interactions that will occur as they interact with students from a wide range of disciplines.

section 29.11.2.7: Master of Science (M.Sc.); Biology (Thesis) — Neotropical Environment (48 credits)

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based option for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Participation in the MSE-Panama Symposium presentation in Montreal is also required. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 29.11.2.8: Master of Science (M.Sc.); Biology (Thesis) — Bioinformatics (48 credits)

The goal of the Bioinformatics option is to train students to become researchers in the interdisciplinary field of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This work includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. The Bioinformatics graduate option consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field. The typical entering student will be affiliated with one of about fourteen different “home” departments in three different faculties, chosen based on his/her specific field of expertise, and will therefore meet the specific requirements for that department. The student will additionally be evaluated according to requirements specific to the Bioinformatics option. Students in this option will have access to five specialized courses that are open only to students within the Bioinformatics option. At the M.Sc. level, students successfully completing the Bioinformatics option will be fluent in the concepts, language, approaches,

section 29.11.2.11

Dates for Guaranteed Consideration

Adjunct Professors

NRC Lab: Malcolm S. Whiteway

STRI: Eldredge Bermingham, Rachel Collin, Hector Guzman, Edward Allen Herre, Haris Lessios, William Owen McMillan, Mark Torchin

Univ. de Montréal: Pierre Drapeau, Louis St-Amant

29.11.2.5 Master of Science (M.Sc.); Biology (Thesis) (45 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Complementary Courses (6 credits)

Two 3-credit courses, or equivalent, at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee.

29.11.2.6 Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (3 credits)

3 credits, one of the following courses:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another graduate course at the 500 level or higher recommended by the advisory committee and approved by the Environment Option Committee.**Master of Scienc**

BIOL 699	(13)	Master's Thesis Research 3

Required Courses (6 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

29.11.2.8 Master of Science (M.Sc.); Biology (Thesis) — Bioinformatics (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses (6 credits)

6 credits from the following courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

29.11.2.9 Doctor of Philosophy (Ph.D.); Biology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar

Complementary Courses (6 credits)

Two 3-credit courses, or equivalent, at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee.

29.11.2.10 Doctor of Philosophy (Ph.D.); Biology — Developmental Biology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

BIOL 520	(3)	Gene Activity in Development
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar

Complementary Course (3 credits)

One course chosen from the following:

BIOL 544	(3)	Genetic Basis of Life Span
BIOL 569	(3)	Developmental Evolution
BIOL 592	(3)	Integrated Bioinformatics
EXMD 607	(3)	Molecular Control of Cell Growth
EXMD 608	(3)	Molecular Embryology
HGEN 692	(3)	Human Genetics
NEUR 605	(3)	Neuroscience Seminar 4

or another graduate course at the 500, 600, or 700 level chosen in consultation with the student's supervisor.

Additional courses may be required if the student's background is deemed insufficient.

29.11.2.11 Doctor of Philosophy (Ph.D.); Biology — Environment

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Course (3 credits)

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another graduate course at the 500, 600, or 700 level recommended by the advisory committee and approved by the Environment Option Committee.

29.11.2.12 Doctor of Philosophy (Ph.D.); Biology — Neotropical Environment

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

BIOL 640	(3)	Tropical Biology and Conservation
BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
ENVR 610	(3)	Foundations of Environmental Policy

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

29.11.2.13 Doctor of Philosophy (Ph.D.); Biology — Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses (6 credits)

Two courses chosen from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

Montreal, QC H3A 0B8
Canada

Telephone: 514-398-6999
Fax: 514-398-3797
Email: *graduate.chemistry@mcgill.ca*
Website: *www.chemistry.mcgill.ca*

About Chemistr

synthesis of anti

Emeritus Professors

T.H. Chan; B.Sc.(Tor.), M.A., Ph.D.(Princ.), F.C.I.C., F.R.S.C.

A. Eisenberg; B.S.(Wor. Poly.), M.A., Ph.D.(Princ.), F.C.I.C.

B.C. Eu; B.Sc.(Seoul), Ph.D.(Brown)

D.F.R. Gilson; B.Sc.(Univ. Coll., Lond.), M.Sc., Ph.D.(Br. Col.)

D.G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), F.C.I.C.

J.F. Harrod; B.Sc., Ph.D.(Birm.), F.R.S.C.

A.S. Hay; B.Sc.(Alta.), Ph.D.(Ill.), F.R.S.

R.H. Marchessault; B.Sc.(Montr.), Ph.D.(McG.), F.C.I.C., F.R.S.C.

M.A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.), F.C.I.C.

Revision, October 2012. Start of revision.

Professors

B.A. Arndtsen; B.A.(Car.), Ph.D.(Stan.)

D.S. Bohle; B.A.(Reed), M.Phil., Ph.D.(Auck.)

D.H. Burns; B.Sc.(Puget Sound), Ph.D.(Wash.)

I.S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C.

M.J. Damha; B.Sc., Ph.D.(McG.), F.C.I.C.

D.N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), F.C.I.C.

R.B. Lennox; B.Sc., M.Sc., Ph.D.(Tor.), F.C.I.C., F.R.S.C.

C.J. Li; B.Sc.(Zhengzhou), M.S.(Chin. Acad. Sci.), Ph.D.(McG.), F.R.S.C.

D.M. Ronis; B.Sc.(McG.), Ph.D.(MIT)

E.D. Salin; B.Sc.(Calif.), Ph.D.(Ore.), F.C.I.C.

B.C. Sanctuary; B.Sc., Ph.D.(Br. Col.)

H. Sleiman; B.Sc.(A.U.B.), Ph.D.(Stan.)

Y.S. Tsantrizos; B.Sc., M.Sc., Ph.D.(McG.)

T.G.M. van de Ven; Kand. Doc.(Utrecht), Ph.D.(McG.)

Revision, October 2012. End of revision.

Associate Professors

M.P. Andrews; B.Sc., M.Sc., Ph.D.(Tor.)

P. Ariya; B.Sc., Ph.D.(York)

K. Auclair; B.Sc.(UQAC), Ph.D.(Alta.)

C.J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)

G. Cosa; B.Sc.(Argentina), Ph.D.(Ott.)

W.C. Galley; B.Sc.(McG.), Ph.D.(Calif.)

J.L. Gleason; B.Sc.(McG.), Ph.D.(Virg.)

A. Kakkar; B.Sc., M.Sc.(Chan. U., India), Ph.D.(Wat.)

P. Kambhampati; B.A.(Car. Coll.), Ph.D.(Texas)

A. Mittermaier; B.Sc.(Guelph), Ph.D.(Tor.)

N. Moitessier; M.Sc., Ph.D.(Nancy)

D. Perepichka; B.Sc.(Donetsk St. U, Ukraine), Ph.D.(Nat. Aca. Sci., Ukraine)

J.F. Power; B.Sc., Ph.D.(C'dia)

Associate Professors

L. Reven; B.A.(Car.), Ph.D.(Ill.)

P. Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.)

Assistant Professors

A.S. Blum; B.A.(Princ.), Ph.D.(Wash.)

M. Bourqui; B.Sc.(EPF Lausanne), Ph.D.(ETH Zürich)

T. Friš i ; B.Sc.(Zagreb), Ph.D.(Iowa)

J. P. Lumb; B.Sc.(C'nell), Ph.D.(Calif., Berk.)

A. Moores; B.Sc., Ph.D.(École Polytechnique, Paris)

B. Siwick; B.A.Sc. Eng. Sci., M.Sc., Ph.D.(Tor.)

Associate Members

J.A. Finch (*Mining, Metals and Materials Engineering*)

P. Grütter (*Physics*)

O.A. Mamer (*University Clinic, RVH*)

R. Schirrmacher (*MNI*)

Adjunct Professors

Y. Guindon, C. Reber, I. Wharf, C.T. Yim, R. Zamboni

29.11.3.5 Master of Science, Applied (M.Sc.A.); Chemistry (Non-Thesis) (45 credits)

(Not offered in 2012-2013)

Research Project (15 credits)

CHEM 699	(15)	Project

Complementary Courses (30 credits)

15 credits, five 3-credit CHEM courses at the 500, 600, or 700 level.

15 credits, five 3-credit courses at the 500, 600, or 700 level selected in consultation with the Adviser.

29.11.3.6 Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Thesis Courses

(24-31 credits)

At least 24 credits chosen from the following:

CHEM 691	(3)	M.Sc. Thesis Research 1
CHEM 692	(6)	M.Sc. Thesis Research 2
CHEM 693	(9)	M.Sc. Thesis Research 3
CHEM 694	(12)	M.Sc. Thesis Research 4
CHEM 695	(15)	M.Sc. Thesis Research 5
CHEM 697	(9)	M.Sc. Thesis Research 7
CHEM 698	(12)	M.Sc. Thesis Research 8

Required Courses

(5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses

(9-16 credits)

Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.

29.11.3.7 Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits)

(Not offered in 2012-2013)

Thesis Courses (24 credits)

(minimum 24 credits)

At least 24 credits chosen from the following:

CHEM 691	(3)	M.Sc. Thesis Research 1
CHEM 692	(6)	M.Sc. Thesis Research 2
CHEM 693	(9)	M.Sc. Thesis Research 3
CHEM 694	(12)	M.Sc. Thesis Research 4
CHEM 695	(15)	M.Sc. Thesis Research 5
CHEM 697	(9)	M.Sc. Thesis Research 7
CHEM 698	(12)	M.Sc. Thesis Research 8

Required Courses (5 credits)

HEM 651	(1)	Seminars in Chemistry 1

CHEM 514	(3)	Biophysical Chemistry
CHEM 522	(3)	Stereochemistry
CHEM 591	(3)	Bioinorganic Chemistry
CHEM 621	(5)	Reaction Mechanisms in Organic Chemistry
CHEM 6294	(5)	Organic Synthesis

Seminars in Chemistry 2

- **Theory**: algorithms, combinatorial optimization, computational geometry, cryptography, graph theory, logic and computation, programming languages, quantum computing, theory of computation, and scientific computing;
- **Systems**: compilers, computer games, distributed systems, embedded and real-time systems, modelling and simulations, networks, software engineering;
- **Applications**: bioinformatics, machine learning, robotics, computer animation, graphics, and vision.

All students must consult the graduate program website *www.cs.mcgill.ca*, where up-to-date information about the graduate program is posted. Any questions concerning the program should be addressed to the Graduate Coordinator.

section 29.11.4.5: Master of Science (M.Sc.); Computer Science (Thesis) (45 credits)

This program is designed for students with a strong interest in research in computer science who hold at least the equivalent of an undergraduate minor in CS. This program combines a strong course component with a research thesis. It is the usual (but not mandatory) entry point for students who wish to do a Ph.D., but is also the program of choice for students who want to find challenging and exciting jobs after their master's.

section 29.11.4.6: Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits)

This program option is to train graduates in state-of-the-art applications of numerical and modelling methods and computer technology to scientific and engineering problems. CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science.

section 29.11.4.7: Master of Science (M.Sc.); Computer Science (Thesis) — Bioinformatics (45 credits)

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

section 29.11.4.8: Master of Science (M.Sc.); Computer Science (Non-Thesis) (45 credits)

This program is designed for students who want to obtain broad knowledge of advanced topics in computer science but without the requirement of a thesis. It offers an excellent preparation for the job market, but is not recommended for students interested in eventually pursuing a Ph.D.

section 29.11.4.9: Doctor of Philosophy (Ph.D.); Computer Science

The Ph.D. program trains students to become strong, independent researchers in the field of their choice. Our graduates take challenging positions in industry or take academic positions at universities and research labs. In order to apply to the Ph.D. program, applicants should normally hold a master's degree in Computer Science or a closely related area, from a well-recognized university, but exceptional students can be admitted to the Ph.D. program directly without a master's degree.

section 29.11.4.10: Doctor of Philosophy (Ph.D.); Computer Science — Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

29.11.4.3 Computer Science Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.4.3.1 Admission Requirements

Master's (M.Sc.)

The minimum requirement for admission is a bachelor's degree (cumulative grade point average (CGPA) of 3.2 or better, or equivalent) with the coursework in Computer Science indicated in the brochure "Information for Applicants to Graduate Programs."

The brochure supplements information in this publication and should be consulted by all graduate students.

Ph.D.

In order to apply to the Ph.D. program, normally applicants should hold an M.Sc. degree in Computer Science or a closely related area, from a well-recognized university. Students who hold a B.Sc. degree in Computer Science but have an exceptionally strong academic record may be admitted directly to the Ph.D. program, but they must initially apply to the M.Sc. program. Students who are in the M.Sc. program have the option to be fast-tracked into the Ph.D. program at the end of their first academic year contingent on excellent performance as judged by the Ph.D. committee.

Application Pr

Associate Professors

X. Liu; B.Sc., M.Sc.(Tsinghua), Ph.D.(Ill.)

M. Maheswaran; B.Sc.(U. Peradeniya), M.Sc., Ph.D.(Purdue)

B. Pientka; B.Sc., M.Sc.(Tech. U. of Darmstadt, Germany), Ph.D.(Carn. Mell)

J. Pineau; B.Sc.(Wat.), M.Sc., Ph.D.(Carn. Mell)

D. Precup; B.Sc.(Tech. U. of Cluj-Napoca), M.Sc., Ph.D.(Mass.)

M. Robillard; B.Eng.(École Poly., Montr

C. Tropper; B.Sc.(McG.), Ph.D.(Brooklyn Poly.)

C. Verbrugge; B.A.(Qu.), Ph.D.(McG.)

A. Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT)., Montr

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697.

29.11.4.6 Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Required Courses

One credit selected as follow:

COMP 669D1	(.5)	Computational Science Engineering Seminar
COMP 669D2	(.5)	Computational Science Engineering Seminar

Complementary Courses

(minimum 21 credits)

Two courses from List A, two courses from List B, and the remaining credits to be chosen from graduate (500-, 600-, or 700-level) courses in the School of Computer Science. Two complementary courses must be taken outside the School of Computer Science.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697, but still need to tak

ECSE 532	(3)	Computer Graphics
ECSE 547	(3)	Finite Elements in Electrical Engineering
ECSE 549	(3)	Expert Systems in Electrical Design
MATH 555	(4)	Fluid Dynamics
MATH 560	(4)	Optimization
MATH 761	(4)	Topics in Applied Mathematics 1
MECH 533	(3)	Subsonic Aerodynamics
MECH 537	(3)	High-Speed Aerodynamics

M.Sc.);0 0 1 221.94902.473 377.343omput er GraphiScienc (Tcssi) — Bioinf0 0 1 221.943446785 377.343omputor 1M

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate’s supervisor.

Note: Students with an appropriate background can substitute 4 credits by COMP 697.

29.11.4.8 Master of Science (M.Sc.); Computer Science (Non-Thesis) (45 credits)

Research Project (15 credits)

15 credits selected as follows:

COMP 693	(3)	Research Project 1
COMP 694	(6)	Research Project 2
COMP 695	(6)	Research Project 3

Complementary Courses (30 credits)

30 credits (nine courses), of which 12 credits must be of 4-credit courses at the 500 600 or 700 level of COMP courses.

29.11.4.9 Doctor of Philosophy (Ph.D.); Computer Science

COMP 610	(4)	Information Structures 1
COMP 618	(3)	Bioinformatics: Functional Genomics
COMP 627	(4)	Theoretical Programming Languages
COMP 642	(4)	Numerical Estimation Methods
COMP 647	(4)	Advanced Cryptography
COMP 649	(4)	Quantum Cryptography
COMP 680	(4)	Mining Biological Sequences
COMP 690	(4)	Probabilistic Analysis of Algorithms
	(4)	Advanced Topics Theory 1

29.11.4.10 Doctor of Philosophy (Ph.D.); Computer Science — Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
COMP 700	(0)	Ph.D. Comprehensive Examination
COMP 701	(3)	Thesis Proposal and Area Examination

Complementary Courses

Two courses chosen from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee. Students who have completed the M.Sc.-level option in Bioinformatics must complete 6 credits of complementary courses not taken in the master's program.

29.11.5 Earth and Planetary Sciences

29.11.5.1 Location

Department of Earth and Planetary Sciences
Frank Dawson Adams Building
3450 University Street
Montreal, QC H3A 0E8
Canada

Telephone: 514-398-6767
Fax: 514-398-4680
Email: *grad.eps@mcgill.ca*
Website: *www.eps.mcgill.ca*

29.11.5.2 About Earth and Planetary Sciences

The Department of Earth and Planetary Sciences offers both M.Sc. and Ph.D. degree programs. Graduate programs are based on research, although some courses are required to build the backgrounds of students. Research in the Department is wide-ranging. It includes studies of the geochemistry of the mantle, the nature of processes concentrating metals in hydrothermal mineral deposits, experimental studies of the controls of viscosity in magmas and the mechanisms of volcanic eruption, the fixation of mercury in marine sediments, the nature of changes in atmospheric chemistry in the early and late Precambrian, mechanisms of faulting, the evolution of topography during orogenesis, wetland hydrogeology, and planetary-scale ocean biogeochemistry and its relationship to global warming. There is a v

section 29.11.5.6: Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) — Environment (48 credits)

Students that have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment (MSE), in partnership with participating academic units.

section 29.11.5.7: Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences

The nature of graduate research in the Department of Earth and Planetary Sciences is highly variable. As a result, students may enter the graduate program with backgrounds in earth sciences, chemistry, or physics, depending on their research interests and the supervisor with whom they wish to work. Ph.D. students typically enter with an M.Sc., in which case they are required by our regulations to take only two courses, although a supervisor may require more, depending on the suitability of the student's background. Aside from courses, the first year is occupied by early work on the thesis project that constitutes the bulk of the Ph.D., with preparation for an oral examination on their research proposal at the end of the first year. Conduct of the research, and preparation of the results, for thesis and publication, typically takes three additional years. Students entering the Ph.D. program without an M.Sc. are required to take a full year of courses before embarking on the processes described above. Students graduating from our Ph.D. program pursue careers in universities and government-funded research institutes, and in the mineral-exploration and petroleum industries.

af, geo

section 29.11.5.8: Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment

The graduate option in Environment provides students with an appreciation for the role of science in informing decision-making in the environment sector, including the influence of political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students that have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment (MSE), in partnership with participating academic units.

29.11.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.5.3.1 Admission Requirements

Applicants should have an academic background equiv

Emeritus Professors

Robert F

Complementary Courses (9 credits)

Three 3-credit 500-, 600-, or 700-level EPSC courses chosen with the approval of the supervisor or the research director and GPS.

section 17.11.9.12: Doctor of Philosophy (Ph.D.); Geography — Environment

The Environment option consists of the thesis and comprehensive examination; required (9) courses from Geography and Environment; and complementary (9) courses in Environment or other fields recommended by the research committee and approved by the Environment Option Committee. The graduate option in Environment provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence of political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

section 17.11.9.13: Doctor of Philosophy (Ph.D.); Geography — Gender and Women's Studies

This doctoral option is an interdisciplinary program for students who meet the degree requirements in Geography and who wish to earn 9 credits of approved coursework on gender and women's studies and issues in feminist research and methods. It includes a thesis centrally related to gender and/or women's studies, the comprehensive examination, required (9) courses in Geography and Women's Studies, and complementary (6) courses, one of which must pertain to gender and/or women's issues.

section 17.11.9.14: Doctor of Philosophy (Ph.D.); Geography — Neotropical Environment

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Ph.D. students offered in association with several university departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis; comprehensive examination; required (9) courses in Geography, Environment and Biology; and complementary (3) courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

29.11.6.3 Geography Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.6.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in *section 16.6: Graduate Admissions and Application Procedures*, but with primary undergraduate specialization in a cognate field, may be admitted to the M.A. or M.Sc. degree in Geography in certain circumstances. In general, they, and others who have deficiencies in their preparation but are otherwise judged to be acceptable, will be required to register for a Qualifying program or to undertake additional courses.

Ph.D. Degree

Students who have completed a master's degree in Geography (with high standing) may be admitted at the Ph.D. 2 level.

On rare occasions, a student may be admitted to the Ph.D. degree without having first taken the master's degree. They, and others who have deficiencies in their preparation but are otherwise acceptable, will be required to register for a year of coursework and/or be required to take extra courses. The normal duration of a program, including field work where required, is three years.

Normally, the Department will restrict admission to the Ph.D. program to students prepared to work in one of the fields of human or physical geography in which specialized supervision is offered. These, which cover a wide range of systematic areas, are listed in documents available from the Department.

29.11.6.3.2 Application Procedures

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

See *section 16.6.3: Application Procedures (for All Admissions Starting Summer 2013)* for detailed application procedures.

29.11.6.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Proposal
- Letters of Reference – **three** references required for Ph.D. program
- *Department application form*

29.11.6.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15 (final cut-off: Jan. 31)	Fall: Jan. 15 (final cut-off: Jan. 31)	Fall: Jan. 15 (final cut-off: Jan. 31)
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 2012. End of revision.

29.11.6.4 Geography Faculty

Chair

T. R. Moore

Graduate Program Director

George W. Wenzel

Post-Retirement

S.H. Olson; M.A., Ph.D.(Johns Hop.)

Revision, October 2012. Start of revision.

Professors

P.G. Brown; M.A., Ph.D.(Col.) (*joint appt. with McGill School of Environment*)

T.R. Moore; Ph.D.(Aberd.), F.R.S.C.

N.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (*James McGill Professor*)

G. Wenzel; M.A.(Manit.), Ph.D.(McG.)

Revision, October 2012. End of revision.

Associate Professors

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

O.T. Coomes; M.A.(Tor.), Ph.D.(Wisc. Mad.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Cant.)

W.H. Pollard; M.A.(Guelph), Ph.D.(Ott.)

N.A. Ross; M.A.(Qu.), Ph.D.(McM.)

R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.)

Assistant Professors

L. Barrang-Ford; M.A.(Oxf.), Ph.D.(Guelph)

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

J. Ford; Ph.D.(Guelph)

M. Kalacska; Ph.D.(Alta.)

B. Lehner; Ph.D.(Frankfurt)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

G. Peterson; M.Sc., Ph.D.(Flor.)

N. Ramankutty; M.Sc.(Ill.), Ph.D.(Wisc.)

R. Sengupta; M.Sc., Ph.D.(Ill.)

S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull, UK)

Adjunct Professors

R. Cooke, E. Levac

Course Lecturer
G. Akman

29.11.6.5 Master of Science (M.Sc.); Geography (Thesis) (45 credits)

Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Course (3 credits)

GEOG 631	(3)	Methods of Geographical Research

Complementary Courses (12 credits)

12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

29.11.6.6 Master of Science (M.Sc.); Geography (Thesis) — Environment (45 credits)

The Environment Option is offered in association with the McGill School of Environment and is composed of a thesis component (24 credits), required Geography and Environment courses (9 credits) and complementary Geography and Environment (12 credits) courses.

Thesis Courses (24 credits)

GEOG 697	(18)	Thesis Research (Environment Option)
GEOG 698	(6)	Thesis Proposal

Required Courses (9 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
GEOG 631	(3)	Methods of Geographical Research

Complementary Courses (12 credits)

9 credits of courses at the 500 level or higher selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the advisory committee and approved by the Environment Option Committee.

29.11.6.7 Master of Science (M.Sc.); Geography (Thesis) — Neotropical Environment (45 credits)

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Courses (9 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
GEOG 631	(3)	Methods of Geographical Research

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Course (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approval by the student's supervisor AND the Neotropical Environment Options Director.

29.11.6.8 Doctor of Philosophy (Ph.D.); Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student's supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course (3 credits), and a minimum of two complementary courses (6 credits). The Ph.D. in Geography also includes several options.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

29.11.6.9 Doctor of Philosophy (Ph.D.); Geography — Environment

The option consists of the thesis and comprehensive examination, required courses (9 credits) from Geography and Environment and complementary courses (9 credits) in Environment or other fields recommended by the research committee and appro

Required Courses

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
GEOG 631	(3)	Methods of Geographical Research

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the advisory committee and approved by the Environment Option Committee.

Comprehensives

GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

29.11.6.10 Doctor of Philosophy (Ph.D.); Geography — Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Geography who wish to earn 9 credits of appro

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

29.11.6.11 Doctor of Philosophy (Ph.D.); Geography — Neotropical Environment

The Neotropical Option is offered in association with several University departments, the McGill School of Environment, and the Smithsonian

website. The ISM also offers fellowships and promotes a variety of joint academic activities greatly enhancing the mathematical environment in Montreal and in the province of Quebec.

Faculty of Arts > Graduate > Academic Programs > Mathematics and Statistics > section 17.11.16.5: Master of Arts (M.A.); Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the Master's degree (M.A.). The thesis option requires a thesis (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

Faculty of Arts > Graduate > Academic Programs > Mathematics and Statistics > section 17.11.16.6: Master of Arts (M.A.); Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.A.). The non-thesis option requires a project (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics > section 29.11.7.5: Master of Science (M.Sc.); Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The thesis option requires a thesis (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics > section 29.11.7.6: Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Bioinformatics (48 credits)

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field.

Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics > section 29.11.7.7: Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and Engineering (47 credits)

CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science. CSE focuses on the development of problem-solving methodologies and robust tools for the solution of scientific and engineering problems. Please visit our website for more information: *www.cs.mcgill.ca/prospective-students/graduate/msc_cse_option*.

Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics > section 29.11.7.8: Master of Science (M.Sc.); Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.).The non-thesis option requires a project (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

section 17.11.16.7: Doctor of Philosophy (Ph.D.); Mathematics and Statistics

The Department offers a course of studies leading to the Ph.D. degree. It differs substantially from the master’s programs in that the student must write a thesis that makes an original contribution to knowledge. The thesis topic is chosen by the student in consultation with the research supervisor. The thesis must be examined and approved by an internal examiner (normally the research supervisor), an external examiner and the Oral Examination Committee. The student must make an oral defense of the thesis before that Committee. In addition, the student has to pass comprehensive examinations.

section 17.11.16.8: Doctor of Philosophy (Ph.D.); Mathematics and Statistics — Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field and will have the capability of developing an independent Bioinformatics research program.

29.11.7.3 Mathematics and Statistics Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.7.3.1 Admission Requirements

In addition to the general Graduate and Postdoctoral Studies requirements, the Department requirements are as follows:

Emeritus Professors

Karl Peter Russell; Vor.Dip.(Hamburg), Ph.D.(Calif.)

Georg Schmidt; B.Sc.(Natal), M.Sc.(S. Af.), Ph.D.(Stan.)

Vanamamalai Seshadri; B.Sc, M.Sc.(Madr.), Ph.D.(Okl.)

George P.H. Styan; M.A., Ph.D.(Col.)

John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)

Professors

William J. Anderson; B.Eng., Ph.D.(McG.)

Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. (*James McGill Professor*)

Stephen W. Drury; M.A., Ph.D.(Cant.)

Christian Genest; BSp.Sc.(UQAC), M.Sc.(Vermont), Ph.D.(Br. Col.)

Eyal Z. Goren; B.A., M.S., Ph.D.(Hebrew)

Pengfei Guan; B.Sc.(Zhejiang), M.Sc., Ph.D.(Princ.) (*Canada Research Chair*)

Jacques C. Hurtubise; B.Sc.(Montr.), D.Phil.(Oxf.) F.R.S.C.

Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (*William Dawson Scholar*)

Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Calif. Tech.)

Niky Kamran; B.Sc., M.Sc.(Bruxelles), Ph.D.(Wat.), F.R.S.C. (*James McGill Professor*)

Olga Kharlampovich; M.A.(Ural St.), Ph.D.(Lenin.), Dr. of Sc.(Steklov Inst.)

Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)

F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.) (*James McGill Professor*)

David A. Stephens; B.Sc., Ph.D.(Nott.)

John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT) (*William Dawson Scholar*)

Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.)

David Wolfson; B.Sc., M.Sc.(Natal), Ph.D.(Purd.)

Jian-Ju Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Rensselaer Poly.)

Assistant Professors

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)

Jayce Getz; A.B.(Harv.), Ph.D.(Wisc.)

Abbas Khalili; Ph.D.(Wat.)

Jean-Christophe Nave; B.Sc., Ph.D.(Calif., Santa Barbara)

Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)

Gantumur Tsogtgerel; Ph.D.(Utrecht)

Associate Professors

Neville G.F. Sancho; B.Sc., Ph.D.(Belf.)

29.11.7.5 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) (45 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Complementary Courses (21 credits)

At least six approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

29.11.7.6 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Bioinformatics (48 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Required Course (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses (21 credits)

6 credits from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

15 credits of approved courses at the 500 or 600 level. Additional courses may be required at the discretion of the candidate's supervisory committee.

29.11.7.7 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and Engineering (47 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Required Course

(1 credit)

MATH 669D1	(.5)	CSE Seminar

MATH 669D2	(.5)	CSE Seminar

Complementary Courses (22 credits)

(minimum 22 credits)

Two courses from List A, two courses from List B, and the remaining credits to be chosen from graduate (500- or 600-level) courses in the Department of Mathematics and Statistics. Two complementary courses must be taken outside the Department of Mathematics and Statistics.

List A - Scientific Computing Courses:

CIVE 602	(4)	Finite Element Analysis
COMP 522	(4)	Modelling and Simulation
COMP 540	(3)	Matrix Computations
COMP 566	(3)	Discrete Optimization 1
MATH 578	(4)	Numerical Analysis 1
MATH 579	(4)	Numerical Differential Equations

List B - Applications and Specialized Methods Courses:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
CIVE 572	(3)	Computational Hydraulics
CIVE 603	(4)	Structural Dynamics
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision
COMP 567	(3)	Discrete Optimization 2
COMP 621	(4)	Program Analysis and Transformations
COMP 642	(4)	Numerical Estimation Methods
COMP 767	(4)	Advanced Topics: Applications 2
ECSE 507	(3)	Optimization and Optimal Control
ECSE 532	(3)	Computer Graphics
ECSE 547	(3)	Finite Elements in Electrical Engineering
ECSE 549	(3)	Expert Systems in Electrical Design
MATH 555	(4)	Fluid Dynamics
MATH 560	(4)	Optimization
MATH 761	(4)	Topics in Applied Mathematics 1
MECH 533	(3)	Subsonic Aerodynamics
MECH 537	(3)	High-Speed Aerodynamics
MECH 538	(3)	Unsteady Aerodynamics
MECH 539	(3)	Computational Aerodynamics
MECH 541	(3)	Kinematic Synthesis
MECH 572	(3)	Introduction to Robotics
MECH 573	(3)	Mechanics of Robotic Systems
MECH 576	(3)	Geometry in Mechanics
MECH 577	(3)	Optimum Design

MECH 610	(4)	Fundamentals of Fluid Dynamics
MECH 620	(4)	Advanced Computational Aerodynamics
MECH 632	(4)	Theory of Elasticity
		Adv

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

29.11.8 Physics

29.11.8.1 Location

Department of Physics
Ernest Rutherford Physics Building
3600 University Street
Montreal, QC H3A 2T8
Canada

Telephone: 514-398-6485 (Graduate Information)
Fax: 514-398-8434
Email: *graduate.physics@mcgill.ca*
Website: *www.physics.mcgill.ca*

29.11.8.2 About Physics

The Department of Physics currently has a faculty of approximately 40 members, including several holders of Canada Research Chairs and many other prestigious named Chairs. Additionally, we host an impressive number of postdoctoral fellows and research associates and run one of the largest and most vibrant graduate programs in North America. The graduate student enrolment is currently approximately 150.

Faculty members in the Department of Physics are recognized internationally for their excellence. Our members have received national and international prizes and fellowships including *Les Prix Du Quebec*, Steacie Prize, Sloan Fellowships, and others too many to list here. They are also in constant demand as reviewers and referees. Students who earn advanced degrees from the Department of Physics will not only get an excellent education, they will also receive valuable guidance and network contacts to help with subsequent career steps.

The Department offers full M.Sc. and Ph.D. degree programs in a wide range of disciplines including astroph

- Electron-positron collisions: a group works on the BaBar experiment at SLAC and R&D for the proposed SuperB experiment at LNF in Italy, with specific interest in CKM matrix elements and physics beyond the Standard Model through studies of rare decays, and on R&D for a future International Linear Collider, with interest in calorimeter development.
- Electron-proton collisions: a group is studying high-energy lepton-quark interactions using data from the ZEUS experiment at DESY in Hamburg, with interest in deep inelastic scattering and flavour production.
- Hadron-hadron collisions: CDF and Dzero groups employ Fermilab's energy frontier Tevatron proton-antiproton accelerator to study top and bottom quarks and search for the Higgs boson. A group is also involved in major contributions to the next energy frontier at CERN's LHC, with work on the High Level Trigger for the ATLAS experiment.
- High-energy particle astrophysics: ground-based gamma-ray astronomy using the newly commissioned VERITAS telescope array and development of the next-generation detector.

Students at the M.Sc. and Ph.D. levels are offered a strong program of research in a challenging and rapidly advancing field. Short term master's projects are based mainly on instrumentation or data analysis conducted on campus, while Ph.D. research may involve an extended stay at one of the world's major research laboratories.

Nuclear Physics

Theoretical: Current research programs include transport equations for heavy ion collisions at intermediate energy; nuclear equation of state from heavy ion collisions; fragmentation at intermediate energy; electromagnetic probes in relativistic heavy ion collisions; effective Lagrangians for hadronic systems at finite temperature; and Quark-Gluon Plasma, QCD.

Experimental: Current research programs in experimental nuclear physics at McGill are focused on two main axes:

- The study of heavy-ion reactions at relativistic energies to determine the properties of nuclear matter at high temperatures and density. This program is being performed at the Brookhav

29.11.8.3 Physics Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

29.11.8.3.1 Admission Requirements

M.Sc.

Normal requirement is a B.Sc. in Physics or equivalent, with high standing.

Ph.D.

Normal requirement is an M.Sc. in Physics or equivalent. Candidates in good Standing may have the option of transferring into this program from the M.Sc. program after one year.

29.11.8.3.2 Application Procedures

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

See *section 16.6.3: Application Procedures (for All Admissions Starting Summer 2013)* for detailed application procedures.

Financial Assistance

Financial assistance will be offered to students in the form of a bursary, and teaching and research assistantships. For new students, financial support will be offered at the time of acceptance. Forms are given and filled out on registration day.

29.11.8.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 2012. End of revision.

29.11.8.4 Physics Faculty

Chair

C. Gale

Director of Graduate Studies

S. Jeon

Emeritus Professors

S. Das Gupta; B.Sc., M.Sc.(Calc.), Ph.D.(McM.) (*Macdonald Emeritus Professor of Physics*)

N.B. DeTakacsy; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

C.S. Lam; B.Sc.(McG.), Ph.D.(MIT)

M.P. Langleben; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

S.K. Mark; B.Sc., M.Sc., Ph.D.(McG.) (*Macdonald Emeritus Professor of Physics*)

D.G. Stairs; B.Sc., M.Sc.(Qu.), Ph.D.(Harv.) (*Macdonald Emeritus Professor of Physics*)

J.O. Strom-Olsen; B.A., M.S., Ph.D.(Camb.)

M.J. Zuckermann; M.A., D.Phil.(Oxf.), F.R.S.C.

Post-Retirement Professors

J. Barrette; M.Sc., Ph.D.(Montr.)

J.E. Crawford; B.A., M.A.(Tor.), Ph.D.(McG.)

R. Harris; B.A.(Oxf.), Ph.D.(Sus.)

J.K.P. Lee; B.Eng., M.Sc., Ph.D.(McG.)

R.B. Moore; B.Eng., M.Sc., Ph.D.(McG.)

P.M. Patel; B.Sc., M.Sc.(Manc.), Ph.D.(Harv.)

Professors

J. Brandenberger; Dip.(ETH), A.M., Ph.D.(Harv.) (*Canada Research Chair*)

J. Cline; B.S.(Harvey Mudd), M.Sc., Ph.D.(Cal. Tech.)

F. Corriveau; B.Sc.(Laval), M.Sc.(Br. Col.), Ph.D.(ETH)

C. Gale; B.Sc.(Ott.), M.Sc., Ph.D.(McG.) (*James McGill Professor*)

M. Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.), F.R.S.C. (*James McGill Professor*)

P. Grutter; Dip., Ph.D.(Basel), F.R.S.C. (*James McGill Professor*)

H. Guo; B.Sc.(Sichuan), M.Sc., Ph.D.(Pitt.), F.R.S.C. (*James McGill Professor*)

D. Hanna; B.Sc.(McG.), A.M., Ph.D.(Harv.) (*Macdonald Pr*

Assistant Professors

T. Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

Lectur

Required Courses

Candidates must successfully complete two 3-credit graduate courses at the 600 level or above; one of these courses should be in the candidate's area of specialization. If the candidate completed two or more courses at the 600 level as part of the McGill Physics M.Sc. program, then one of these courses may be used as a substitute for one of the required courses. In all cases, candidates must also pass the Ph.D. preliminary examination (PHYS 700).

PHYS 700	(0)	Preliminary Ph.D. Examination

29.11.9 Psychology

29.11.9.1 Location

Stewart Biological Sciences Building, Room W8/33A
1205 Dr. Penfield Avenue
Montreal, QC H3A 1B1
Canada

Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: *gradsec@ego.psych.mcgill.ca*
Website: *www.psych.mcgill.ca*

29.11.9.2 About Psychology

The aim of the Experimental program is to provide students with an environment in which they are free to develop skills and expertise that will serve during a professional career of teaching and research as a psychologist. Coursework and other requirements are at a minimum. Success in the program depends on

section 17.11.19.7: Doctor of Philosophy (Ph.D.); Psychology — Language Acquisition

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

section 17.11.19.8: Doctor of Philosophy (Ph.D.); Psychology — Psychosocial Oncology

The Department of Oncology, in conjunction with the Ingram School of Nursing, the Department of Psychology and the School of Social Work, has

29.11.9.4 Psychology Faculty

Chair

David Zuroff

Emeritus Professors

A.S. Bregman; M.A.(Tor.), Ph.D.(Yale)

D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(C'nell)

V. Douglas; B.A.(Qu.), M.A., M.S.W., Ph.D.(Mich.)

A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)

R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) (*E.P. Taylor Emeritus Professor of Psychology*)

P. Milner; B.Sc.(Leeds), M.Sc., Ph.D.(McG.)

J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)

Revision, October 2012. Start of revision.

Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)

I.M. Binik; B.A.(NYU), M.A., Ph.D.(Penn.)

B. Ditto; B.S.(Iowa), Ph.D.(Ind.)

K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)

F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)

R. Koestner; B.A., Ph.D.(Roch.)

D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (*James McGill Professor*)

J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)

J. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (*E.P. Taylor Professor of Psychology*)

D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)

Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)

D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

C. Palmer; B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(C’nell)

M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)

B. Sherwin; B.A., M.A., Ph.D.(C'dia) (*James McGill Professor*)

T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)

M. Sullivan; B.A.(McG), M.A., Ph.D.(C'dia)

Associate Professors

H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)

B. Knauper; Dr. phil.(Germany, Mannheim)

M.J. Mendelson; B.Sc.(McG.), A.M., Ph.D.(Harv.)

K. Nader; B.Sc., Ph.D.(Tor.)

G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) (*William Dawson Scholar*)

K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)

M. Pompeiana; M.D., Ph.D.(Pisa)

Z. Rosberger; B.Sc.(McG.), M.A., Ph.D.(C'dia) (*Part-time*)

D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton)

Assistant Professors

J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)

I. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (*Part-time*)

Y. Chudasama; B.Sc., Ph.D.(Cardiff)

M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)

J. Ristic; B.A., M.A., Ph.D.(Br. Col.)

H.-T. Yu; B.S.(Taiwan), M.S., M.A., Ph.D.(Ill.-Urbana-Champaign)

Lecturers

R. Amsel, P. Carvajal

Associate Members

Anesthesia: T. Coderre

Douglas Hospital Research Centre: S. King, J. Pruessner, H. Steiger

Jewish General Hospital: P. Zelkowitz

McGill Vision Resear

PSYC 699	(12)	Masters Research 2

Required Courses (18 credits)

PSYC 601	(6)	Master's Comprehensive
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

29.11.9.6 Doctor of Philosophy (Ph.D.); Psychology

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course (6 credits)

PSYC 701	(6)	Doctoral Comprehensive Examination

One graduate seminar each term during Year 2 and Year 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily require an examination in a foreign language. However, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Note: If the student has a non-McGill master's degree then the following courses are also required:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

29.11.9.7 Doctor of Philosophy (Ph.D.); Psychology — Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition, approved by the LAP committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate ho

LING 710	(2)	Language Acquisition Issues 2
PSYC 701	(6)	Doctoral Comprehensive Examination
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

One graduate seminar each term during Year 2 and Year 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Note: If the student has a non-McGill master's degree then the following courses are also required:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Complementary Courses (9 credits)

One graduate-level course in statistics, such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

Two courses selected from the following list, at least one course must be outside the Department of Psychology:

EDSL 620	(3)	Critical Issues in Second Language Education
EDSL 623	(3)	Second Language Learning
EDSL 624	(3)	Educational Sociolinguistics
EDSL 627	(3)	Classroom-Centred Second Language Research
EDSL 629	(3)	Second Language Assessment
EDSL 632	(3)	Second Language Literacy Development
EDSL 664	(3)	Second Language Research Methods
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown
LING 651	(3)	Topics in Acquisition of Phonology
LING 655	(3)	Theory of L2 Acquisition
PSYC 734	(3)	Developmental Psychology and Language
PSYC 736	(3)	Developmental Psychology and Language
SCSD 619	(3)	Phonological Development
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Development
SCSD 637	(3)	Developmental Language Disorders 1

SCSD 643	(3)	Developmental Language Disorders 2
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2

29.11.9.8 Doctor of Philosophy (Ph.D.); Psychology — Psychosocial Oncology

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the PSO coordinating committee.

Thesis

29.11.10.2 About Redpath Museum

The Redpath Museum is a unique interdisciplinary unit within the Faculty of Science offering graduate training in research devoted to biosystematics, ecology, conservation biology, and evolutionary biology, leading to M.Sc. and Ph.D. degrees. It is an institution with extensive collections of ancient and modern organisms, minerals, and ethnological artifacts. Research and teaching is centred on collections-based study, object-oriented investigation, and fieldwork. Among the Museum's unique features are its courses on Scientific Writing.

29.11.10.3 Redpath Museum Admission Requirements and Application Procedures

29.11.10.3.1 Admission Requirements

The Redpath Museum does not have its own graduate program. All graduate students of the professors in the Redpath Museum have home departments in either Biology, Earth and Planetary Sciences, Anthropology, Natural Resource Sciences, or Education. Admission requirements are subject to those home departments' regulations.

29.11.10.3.2 Application Procedures

Students in the Redpath Museum may enrol in McGill's Department of Biology or other units, including the Department of Earth and Planetary Sciences, the Department of Anthropology, the Department of Natural Resource Sciences, or the Faculty of Education. Anyone interested should contact the unit concerned.

29.11.10.3.3 Dates for Guaranteed Consideration

For more information, please contact the Graduate Program Coordinator in the department you are interested in.

29.11.10.4 Redpath Museum Faculty

Director

David M. Green

Emeritus Professor

Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

Professor

David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F.L.S.

Associate Professors

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Biology*)

Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.) (*CRC Tier 2 Chair in Paleontology*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with McGill School of Environment*)

Assistant Professor

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

Faculty Lecturer

Linda Cooper; B.A.(C'dia), M.A.(McM.)

Associate Members

Biology: Graham A.C. Bell, Lauren Chapman

Earth & Planetary Sciences: Jeanne Paquette

McGill School of Environment: Colin Chapman

Adjunct Professors

Robert Holmes, Henry M. Reiswig, Michael Woloch