



McGill

TEACHING OPPORTUNITIES & RESOURCES IN THE UNDERGRADUATE PROGRAM

Faculty of Medicine (M.D., C.M. Program)

Faculty of Dentistry (DMD Program, Basis of Dentistry Component)

Undergraduate Medical Education & Student Affairs:

<http://www.medicine.mcgill.ca/ugme/>



TEACHING OPPORTUNITIES IN THE UNDERGRADUATE PROGRAM

BASIS OF MEDICINE (YEAR 1)

BOM occupies the first 18 months of medical school. It provides a systems-based, integrated approach to normal and abnormal function. Eight units, in blocks of three to fourteen weeks, cover basic sciences applicable to clinical practice. There has been a decrease in lecture time in the Basis of Medicine Unit and an increase in small group sessions while the focus is often on clinical correlation with topics covered in whole class sessions (physical examination skills have also been integrated)*. Faculty is recruited to facilitate these small groups in all units as well as lectures, labs, computer assisted instruction, interactive large group sessions. There are many opportunities to work with scientists and physicians within each of the units. Here is a list of small groups being held in this academic year in different units:

Ethical Issues in Biomedical Technology / Genetics (Unit 1-8)	Pharmacokinetics (Unit 8)
Cancer and Oncogenes / Genetics of Cancer (Unit 1-8)	Neoplasia (Unit 8)
Genetics- Problem Solving (Unit 1)	Autonomic Nervous System (Unit 8)
Clinical Electrophysiology and the ECG (Unit 2)	Pulmonary, Pleural and Mediastinal Neoplasms (Unit 8)
Cardiovascular System related small groups (Unit 2)	COPD and CRLD (Unit 8)
Renal System related small groups (Unit 2)	Endocarditis, Valvular Heart Disease (Unit 8)
Respiration related small groups (Unit 2)	Anticoagulant and Fibrinolytic Drugs (Unit 8)
Sexually Transmitted Infections (Unit 3)	Heart Failure (Unit 8)
Puberty, Contraception and Fertility (Unit 3)	Atherosclerosis and Coronary Artery Disease (Unit 8)
Polycystic Ovarian Syndrome (Unit 3)	Glomerular Diseases: Glomerulonephritis (Unit 8)
Upper GI Dysmotility (Unit 4)	Asthma (Unit 8)
Hospital Visit: Investigating the Patient (Unit 4)	Urological Neoplasia (Unit 8)
Gastric Pathophysiology (Unit 4)	Gynecological Pathology (Unit 8)
Hepatobiliary Function (Unit 4)	Drug Overdose (Unit 8)
Gastrointestinal Malabsorption (Unit 4)	Hematopathology (Unit 8)
Growth, Hyper/hypo-Pituitarism (Unit 4)	Menopause and Aging (Unit 8)
Adrenal Insufficiency and Hyperfunction (Unit 4)	Diabetes (Unit 8)
Endocrine Tutorial IV: Obesity and Under Nutrition (Unit 4)	Drugs Used in the Treatment of Arthritis (Unit 8)
Thyroid Physiology and Pathophysiology (Unit 4)	Upper & Lower GI Tract (Unit 8)
Coagulation (Unit 5)	Breast Diseases (Unit 8)
Anemia (Unit 5)	Diseases of the Liver, Pancreas and Biliary Tree (Unit 8)
Transfusion Medicine (Unit 5)	Genetic Testing in Families and Populations (Unit 8)
Physical Exam Musculoskeletal System (Unit 5)	Biostatistics / Chance (Unit 8)
Calcium Homeostasis (Unit 5)	CNS: Cerebrovascular Disease and Trauma (Unit 8)
Neurology related small groups (i.e. Spinal Cord) (Unit 6)	Psychotropic Drugs (Unit 8)
Inflammation, immunity and allergy (Unit 7)	Prenatal Diagnosis (Unit 8)
Tuberculosis and AIDS (Unit 7)	Global Health Case Study (Unit 8)
Cell Injury, Degeneration, and Acute Inflammation (Unit 7)	CNS: Space-Occupying Lesions and Brain Tumours (Unit 8)
Autoimmunity: Manifestations & Mechanisms (Unit 7)	Genetics of Intellectual Disability (Unit 8)
Chronic Inflammation and Healing (Unit 7)	Communication/ Related issues in Pathology - Death Certificate (Unit 8)
Immune-mediated Tissue Injury (Unit 7)	Anesthetics and Analgesics (Unit 8)
Micro Immunology (Unit 7)	Alcoholism and Drug Abuse (Unit 8)
Pathology of CNS Infections (Unit 7)	

If you would like more information about teaching opportunities or to get involved in the Basis of Medicine program, please contact Ms. Anna Lee (basis.med@mcgill.ca)

TEACHING OPPORTUNITIES IN THE UNDERGRADUATE PROGRAM

INTRODUCTION TO CLINICAL MEDICINE (YEAR 2)

ICM provides a clinical experience, using both in-patient and ambulatory settings. The initial segment of this component, Intro to Clinical Sciences-ICS teaches the physical examination, medical ethics and evidence-based medicine. Students rotate to various hospitals and clinical disciplines: internal medicine, pediatrics, family medicine, neurology, oncology, radiology, surgery, anaesthesia, and ophthalmology. The ICM component bridges the Basis of Medicine (BOM) Clerkship components. Whereas in BOM, clinical relevance of the fundamental sciences was emphasized, the focus in ICM shifts to the clinical sciences and its applications. Students are taught essential skills e.g. physical examination, information literacy, ethical principles, surgical skills, basic technical skills, case presentation, problem solving, radiological interpretation and initial patient management. Students have lots of patient contact, but no direct patient responsibility during this component. There are many teaching opportunities on topics like BCLS (Basic Cardiac Life Support), Universal Precautions, Medical Ethics & Health Law, Introduction to Ophthalmology, Clinical Biochemistry, Evidence Based Medicine, Psychiatry, Palliative Care, Aboriginal Medicine, Patient Safety to name a few. The teaching methods vary from lectures to one-on-one teaching of techniques. If you would like more information about teaching opportunities or to get involved in the Introduction to Clinical Medicine program, please contact Mrs. Nicole Guedon (clinicaladmin.med@mcgill.ca) or any course director of ICM (See list attached).

CORE AND SENIOR CLERKSHIP (YEAR 3-4)

Core Clerkship consists of a one week preclerkship lecture based preparatory sessions focusing on the practical aspects of clerkship which then is then followed by 5 eight-week rotations, 1 four-week rotation, 1 four-week Elective 3. Students spend 4 to 8 weeks in various disciplines in hospitals or community settings. Core Clerkship rotations include in: general surgery, family medicine urban/rural, psychiatry, obstetrics and gynecology, internal medicine. There is also an Integrated Clerkship offering a longitudinal experience during the third year in Outaouais. Senior Clerkship consists of 3 four-week compulsory rotations including emergency medicine, geriatric medicine and surgery sub-specialty and 4 four-week electives (either clinical or basic science seminar). In comparison to Introduction to Medicine (ICM), students are given patient responsibility, but always under supervision. The Advanced Cardiac Life Support (ACLS) course is also taken during this time. There are many teaching opportunities in each rotation which offers core teaching sessions organized around common clinical presentations seen in their discipline. If you would like more information about teaching opportunities or to get involved in the Core or Senior Clerkship program, please contact Mrs. Nicole Guedon (clinicaladmin.med@mcgill.ca) or any clerkship director (See list attached).

PHYSICIANSHIP AND PHYSICIAN APPRENTICESHIP (LONGITUDINAL PROGRAM)

Physicianship and Physician Apprenticeship is a longitudinal program that runs throughout the four year. Physicianship consist of a series of lectures, small groups sessions while Physician Apprenticeship consists of small groups that meet throughout the 4 years. The Physician Apprenticeship has been designed to promote student reflection on their transition from layman to physician and to provide an opportunity for mentoring and continuity of the educational process. The group leaders in this course have the title of "Osler Fellow", reflecting the importance that the Faculty places on this course. The Osler Fellows meet with their Physician Apprenticeship group (which consists of six medical students, a third-year co-leader, and a fourth-year co-leader) a total of 22 times over four years; the meetings are distributed as follows. They also participate in faculty development half-day activities which occur three to four times per year. There is always a need for Faculty to facilitate small groups and advance scheduling is possible. Recruitment is done annually. Here is a sample list of small groups being held in this academic year:

Interprofessionalism Teams

Spirituality, Religious Adherence & Medicine

Conflict of Interest & the Pharmaceutical Industry

Taking a Medical History*

Health Promotion, Sexual History

Ethical Challenges in Interviewing

Relating to Team Members*

Medicine & Society related small groups

Communication Plus* related small groups

Professionalism related small groups

Public Health related small groups

Patient Safety sessions

**These sessions are held at Arnold & Blema Steinberg Medical Simulation Centre.*

TEACHING OPPORTUNITIES IN THE UNDERGRADUATE PROGRAM

Community Health Alliance Program (CHAP): CHAP is a program that offers students the opportunity to work with community organizations, usually those serving disadvantaged or marginalized populations. Examples include needle exchange programs, programs for dietary support for disadvantaged pregnant women, and aboriginal health groups. The CHAP initiative introduces medical students to local organizations and was conceived by medical students but incorporated as an option within Physician Apprenticeship in 2008. If you would like more information about teaching opportunities or to get involved in the Physicianship program, please contact Ms. Toby Cape (adminphysicianship.med@mcgill.ca) or Ms. Anne Briggs (anne.briggs@mcgill.ca).

UNDERGRADUATE MEDICAL ELECTIVES

All undergraduate M.D., C.M. students are required to complete a minimum of 20 weeks of medical electives in a minimum of three different disciplines in order to meet program graduation requirements. The catalog of currently available McGill electives is found at: http://www.medicine.mcgill.ca/ugme/electives/electives_list_en.htm. We would like to increase the breadth of our elective offerings. If you are part of a specialty or service that is not yet represented or work in an interesting subspecialty niche and would be willing to supervise third and fourth year elective students, please let us know. Send an e-mail to careeradvisor.med@mcgill.ca with the following information:

- Site information (hospital/clinic name and address)
- Elective Chair name, phone #, and e-mail address
- Chair's Assistant name, phone #, and e-mail address
- Brief description of the elective (Minimum elective length (2, 3, or 4 weeks), Most common procedures and types of cases, Usual activities in which the student will participate)

TEA-TIME TALKS WITH DOCS (UGME Career Planning Office Initiative)

Tea-Time Talk with Docs is a series of informal seminars in which physicians from a wide-variety of specialties, practice types, and experiences have the opportunity to enlighten small groups of interested first and second year medical students about the breadth of possibilities within the medical profession over tea and cookies. Participants are required to come to the McIntyre Medical Sciences building for one afternoon "tea hour" to give a brief (15 minutes or so) presentation/speech on their individual daily lives as physicians in their specialty/work scenarios. Time is reserved for questions and discussion. The seminars run during the fall semester each year. To participate, watch your departmental emails for the annual "call for participants" in June/July each year OR email a note expressing interest to Andrea McDaniel at careeradvisor.med@mcgill.ca.

Teaching at the Arnold & Blema Steinberg Medical Simulation Centre and the Undergraduate Program

A number of teaching opportunities in the 4 year program are held at the *Arnold & Blema Steinberg Medical Simulation Centre*. Students felt it was the most effective learning they had done all year to date. Students are able to practice a number of procedures:

- Cardiac output, peripheral vascular resistance, and heart failure – Unit 2, Basis of Medicine
- Blood Drawing – Unit 4, Basis of Medicine
- Testing for occult blood – Unit 5, Basis of Medicine
- Practice knot tying, sutures, IV insertion, NG tubes, foley catheter – ICM Surgery
- Rheumatological exam – ICM Internal Medicine
- Sensitive pelvic exam with patient teachers – ICM Family Medicine
- An Approach to the Rectal Exam - Introduction to Clerkship Week
- OSCE type examinations - Family Medicine (Introduction to Clinical Sciences), Obstetrics & Gynecology and Psychiatry clerkship rotations.
- Interview skills and advanced communication skills using standardized patients as well as how to deal with difficult team members. - Physicianship

GENERAL TEACHING RESOURCES

- The Faculty Development Office of the Faculty of Medicine at McGill University provides programs which aim to assist faculty members in their roles as educators, researchers and administrators. Details on what the Faculty Development Office offers can be found in the Programs and Activities section of their website. <http://www.mcgill.ca/medicinesfacdev/aboutus/>
- *Improving Learning Workshops* are offered at McGill. The Teaching and Learning Services at McGill are available to discuss strategies for course design that focus on enhancing student learning. The TLS is dedicated to improving teaching and learning at McGill University. They offer services to individual faculty members as well as departments and faculties. They also offer a “Course Design and Teaching Workshop (CDTW)” an intensive, five-day workshop where McGill faculty design or redesign a course and enhance their teaching skills. During the workshop participants learn about the principles of course design, hear from experienced McGill professors who have used these principles, apply these ideas to one of their courses, teach brief segments of their courses and receive feedback from peers. For further information about the workshop please contact Dr. Mariela Tovar (mariela.tovar@mcgill.ca). Visit their website: <http://www.mcgill.ca/tls/workshops/>
- When asked to develop exam questions, the NBME Manual entitled “Constructing written test questions for the basic and clinical sciences” is available on line: http://www.nbme.org/PDF/ItemWriting_2003/2003IWGwhole.pdf
Chapter 3. Technical Item Flaws is particularly helpful as a quick guide.
- The faculty has hired an evaluation expert to help departments review their evaluations methods. Dr Meredith Young (meredith.young@mcgill.ca), assistant professor is available to discuss and help you develop comprehensive assessment methods or improve your current ones.
- Integrate the learning material of your curriculum with better efficiency & cohesiveness by reviewing what has been covered so far on the same topics across the curriculum. Please contact Maryse Grignon (maryse.grignon@mcgill.ca), Administrator for the Curriculum Management, if you would like assistance in getting topics research report from the curriculum.
- When presenting to students, categorizes the topics into “must know,” “should know,” or “nice to know” categories when teaching a session/course. This is a well rated method in course evaluations.
- Add some interactivity to your sessions using the Student Response System (clickers). The student response system (SRS or clickers) technology allows instructors to ask questions and collect and display student responses in real time and enables interaction and feedback even in large class environments. All students are provided with a “clicker” at the time of registration. For more information, please contact Dannie Moronval (studentaffairs.med@mcgill.ca).
- Online Quizzes: Many clerkship rotations are now using online assignments through the e-curriculum on webCT (Surgery, Obs–Gyn and Geriatrics). If you are interested in developing online material or would like your presentations to the undergraduate medical students to be upload on webCT, please contact Donna Rosito (donna.rosito@mcgill.ca), Curriculum Editor for the Electronic- Medical Curriculum.
- All course objectives are currently being revised to the Medical Council of Canada “Expert Objectives” relevant to your field (End date 2012). They can be accessed through the following link: http://www.mcc.ca/objectives_online/. Look through them to choose and adjust the level and breadth of your teaching sessions for students.
- If you would like some information regarding our libraries services, please visit the website: <http://www.mcgill.ca/library/library-assistance/askus/> or contact Jill Boruff (jill.boruff@mcgill.ca), from the Life Sciences Library.
- For more suggestions, please visit the Curriculum Management Section of the UGME website: http://www.medicine.mcgill.ca/ugme/curriculum/cc_suggestions_en.htm

FOR MORE INFORMATION

More information regarding the McGill Undergraduate Program (i.e. Curriculum Details, Student Affairs & Services, Academic Policies and Contact Info for Academic and Administrative Staff) can be found on the UGME website:

<http://www.medicine.mcgill.ca/ugme/>