

Canadian Memorial Chiropractic College

Academic Calendar

2014-2015

Revised June 26, 2014



CMCC



CMCC

Canadian Memorial Chiropractic College

Academic Calendar 2014-2015

6100 Leslie Street, Toronto, Ontario M2H 3J1

Telephone: 416 482 2340 www.cmcc.ca

Disclaimer

The Canadian Memorial Chiropractic College (CMCC) reserves the right to change, without notice, any information relating to the matters set out in the Calendar and posted in any media, including but not limited to written or electronic format, and including but not limited to matters relating to admissions, academics, graduation and discipline. For confirmation of the most up to date statement relating to any matter set out in the Calendar individuals are directed to the Registrar.

CMCC assumes no liability whatsoever for direct or indirect damages resulting from matters beyond its control, including but not limited to interruption or cancellation of any academic programs where the interruption or cancellation is caused by fire, water, theft, strike, lockout, protest, government action, or civil unrest.

Any reference to an individual position may include his/her designate.

For an electronic version of this Calendar or for information on CMCC, visit our website at: www.cmcc.ca

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Our Vision

An academic institution recognised for creating leaders in spinal health

Our Mission

Deliver world class chiropractic education, research and patient care

Our Strategic Objectives

Pursue with rigour, innovation and uncompromising standards:

1. Student and graduate success
2. Strategic alliances
3. A global profile/footprint
4. Recognition as an employer of choice
5. Sustainable economic performance

Our Core Values

Communication: We communicate frankly and openly with each other. We encourage a learning environment to stimulate the exchange of information and knowledge. We value and support teamwork, co-operation, and timely communication.

Accountability: Individually and collectively, we take responsibility for our actions and decisions in achieving our goals. We are accountable to ourselves and our colleagues and, in particular, to students, patients and stakeholders whom we serve.

Respect: We respect every individual. We treat people with fairness and dignity. We benefit from the diversity of people and opinions.

Excellence: We are committed to the highest standards of quality, exceptional performance at all times and the pursuit of innovation. We strive to create a positive culture that supports a healthy workplace of choice.

The Chiropractic Oath

I do hereby swear before God and these assembled witnesses, both corporeal and spiritual, that I will do my utmost to keep this my sacred, trusted oath, as a graduate of the Canadian Memorial Chiropractic College, that henceforth:

I will esteem those who taught me this Art, Science and Philosophy of Chiropractic, and with this torch of knowledge, fashioned by Hippocrates, I will light the way to the understanding of those natural laws which preserve the human body as a fitting temple of the soul.

I will keep the physical, mental and spiritual needs of the sick as my foremost duty, ever searching for and correcting the cause of their disease to the best of my ability, insofar as my science is in the highest precepts of my *Alma Mater* and harmonious with the *Vis Medicatrix Naturae*.

I will at all times stand ready to serve humanity, without distinction of race, creed or colour, in my lifelong vocation of preventing and alleviating human suffering, wherever it may be found, by exemplifying in my own life a pattern of living in harmony with the laws of nature.

I will refrain from any act of wrongdoing and will regard the keeping of a patient's confidence as a moral obligation, using any such information only in his/her best interests.

May God so direct the skillful use of my hands that I may bring strength to the sick, relief to the suffering, peace of mind to the anxious, and inspiration to all humanity to attain bountiful health that we may live this life to the fullest expression of its innate endowments.

I therefore solemnly swear to uphold these principles and precepts to the best of my ability, so help me God.

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Message from the President



Jean A. Moss, DC, MBA

A handwritten signature in dark ink, appearing to read 'Jean'.

It is a pleasure to introduce you to the 2014-15 academic year.

CMCC's undergraduate and graduate programs have been developed with the input and expertise of some of the most gifted chiropractors and specialists within chiropractic and health care education today. Known and highly regarded internationally, CMCC is an academic institution recognised for creating leaders in spinal health. Our postgraduate programs in advanced Clinical Sciences, Diagnostic Imaging and Sports Sciences have built the foundation for chiropractic specialists and academic leaders within North America and abroad.

As I prepare to pass the responsibility of the presidency to new leadership, I am proud of what we offer our students and their patients, and of the continual enhancements to our program.

A student entering CMCC today benefits from in-house expertise offered throughout our programs in addition to opportunities which come from the development of interprofessional relationships with other academic institutions and other health care delivery organizations such as community health centres and hospitals. These relationships provide increased exposure to diverse areas of health care and enhanced educational opportunities for students, including CMCC's outreach to the Dominican Republic. They also expand our research capabilities which further our ability to acquire and integrate new knowledge into the curriculum.

In 2012, CMCC forged an articulation agreement with the University of Ontario Institute of Technology, enabling qualified students in UOIT's Kinesiology Program to complete their honours undergraduate degree and their professional chiropractic degree in seven years instead of eight. In 2014 a similar articulation agreement was signed with the University of Winnipeg. These agreements provide students who have decided on their profession early to seamlessly bridge their foundational degree into a professional degree in chiropractic.

Within the Division of Graduate Studies, CMCC developed the ground breaking Work Disability Prevention Program, providing professional certification as Return to Work experts. This program is greatly enhanced by on campus access to the UOIT-CMCC Centre for the Study of Disability Prevention and Rehabilitation.

We continue to integrate learning advancements. CMCC's Simulation Laboratory is the first of its kind for an independent chiropractic institution. Equipped with delayed video feedback, programmable simulated patient manikins, human analog models, and Force Sensing Tables, it provides exceptional tools and unique opportunities to enhance clinical and treatment skills.

CMCC will continue to reap the benefits of these advancements, even as it embraces new relationships, new technology and new knowledge, to provide an exceptional chiropractic education and to graduate chiropractors who are leaders in spinal health. It is rewarding to have been part of the institution's legacy. I look forward to seeing what the future brings and to hearing of the accomplishments of our future graduates.

About CMCC



History

The Canadian Memorial Chiropractic College (CMCC) was established in 1945 by chiropractors who gathered from across Canada to establish a central association for the profession — the Dominion Council of Chiropractors, which later became The Canadian Chiropractic Association. It was their vision to establish an academic institution that would espouse a high standard of chiropractic education and become a catalyst for the cohesive development of chiropractic in Canada.

“Memorial” in the name is in honour of Canadian Daniel David Palmer, who founded chiropractic in the United States in 1895. Chiropractic soon developed into one of the largest primary contact health care professions in North America.

CMCC opened its doors on September 18, 1945 — the 50th anniversary of the first chiropractic adjustment — welcoming a large class of veterans returning from World War II. CMCC served Canada as the sole provider of chiropractic education until 1993, when a francophone program was established in Quebec. As a result, the majority of today’s practicing chiropractors in Canada are graduates of CMCC. Graduates also practice in 37 other countries.

After achieving “Recognized Candidate for Accreditation Status” with the Commission on Accreditation of the Council on Chiropractic Education (Canada) Inc. (now the Council on Chiropractic Education Canada of the Canadian Federation of Chiropractic Regulatory and Educational Accrediting Boards) in 1982, CMCC became fully accredited in 1986.

CMCC established postgraduate chiropractic residency programs in Chiropractic Clinical Sciences and Radiology (now Diagnostic Imaging) in 1975. A Chiropractic Sports Sciences residency program was added in 1994. In 2012, CMCC expanded its postgraduate program offerings to include a certificate program in Work Disability Prevention.

In 2005, CMCC became the first private institution to offer a profession oriented health care degree under the Government of Ontario's *Post-secondary Education Choice and Excellence Act, 2000*.

In 2007, CMCC established the McMorland Family Research Chair in Mechanobiology. CMCC is the first independent chiropractic institution to create a research chair.

In 2012, CMCC entered into an academic articulation agreement with the University of Ontario Institute of Technology (UOIT). This Agreement provides an accelerated pathway for eligible UOIT students to meet the requirements of its Bachelor of Health Sciences (Honours) degree – Kinesiology major, and CMCC's Doctor of Chiropractic degree, seamlessly bridging the foundational degree into CMCC's professional degree.

In 2014, CMCC entered into an academic articulation agreement with the University of Winnipeg (UWinnipeg). This Agreement provides an accelerated pathway for eligible UWinnipeg students to meet the requirements of its Bachelor of Science, Kinesiology degree and CMCC's Doctor of Chiropractic degree, seamlessly bridging the foundational degree into CMCC's professional degree.

Institutional Status

Incorporation

CMCC is incorporated under the Corporations Act (Ontario) as a not for profit organization and is a registered charity under the Income Tax Act (Canada). CMCC receives no direct government funding and relies on membership, tuition and donations for support.

Professional Accreditation

The Doctor of Chiropractic degree program of the Canadian Memorial Chiropractic College is accredited by the Council on Chiropractic Education Canada (CCEC) of the Canadian Federation of Chiropractic Regulatory and Educational Accrediting Boards (CFCREAB). CFCREAB is a member of the Councils on Chiropractic Education International (CCEI), whose other members are The Council on Chiropractic Education US, the Council on Chiropractic Education Australasia Inc. and The European Council on Chiropractic Education. CCEI has established core Model Standards that comprise the essential elements necessary for chiropractic accrediting agencies around the world to ensure that each program they accredit provides quality education so that their graduates can serve as competent and qualified chiropractic practitioners. CMCC's undergraduate program meets the educational requirements established for the practice of chiropractic and is recognised by regulatory bodies in all provinces in Canada, in US states and in many other jurisdictions around the world.

Any concerns regarding CMCC's compliance with the CFCREAB's Standards for Doctor of Chiropractic Programs should be addressed to the CCEC c/o CFCREAB at 39 River Street, Toronto, ON M5A 3P1, or at 416 646 1600.

Ministerial Consent

CMCC awards a Doctor of Chiropractic degree, a second entry baccalaureate honours degree, to its graduates. This program is offered under the written consent of the Minister of Training, Colleges and Universities for the period from March 24, 2011 to March 24, 2021.

Prospective students are responsible for satisfying themselves that the program and the degree will be appropriate to their needs (e.g., acceptable to potential employers, professional licensing/regulatory bodies or other educational institutions).

Other

CMCC, through its Department of Anatomy, is one of only 10 educational institutions designated as a school of anatomy under the authority of the Anatomy Act of the Province of Ontario. CMCC is listed in Regulation 21 of the Anatomy Act, amended 2006.

CMCC is an approved institution under the Province of Ontario's Student Assistance Program (OSAP) for 2013-2014. This approval is granted annually, and CMCC has held this status continuously since 1988. Students attending CMCC are therefore eligible for assistance from OSAP.

CMCC has been recognised as a Designated Educational Institution by Citizenship and Immigration Canada and the Ontario Ministry of Training, Colleges and Universities. This designation allows international students holding a valid Study Permit to enrol in the Doctor of Chiropractic degree program and postgraduate residency programs.

Programs

CMCC is an academic institution offering a second entry undergraduate professional degree and postgraduate and continuing education programs.

Undergraduate

The undergraduate program at CMCC is a second entry baccalaureate honours degree program, offered to qualified candidates who have completed a minimum of three years of university level study prior to admission.

The undergraduate curriculum is a rigorous 4200+ hour program which provides the in depth knowledge required to develop competent and successful chiropractors. The first two years of the curriculum emphasize the foundational courses in the biological sciences (anatomy, pathology, physiology, microbiology, etc.). Beginning in Year I, and becoming the emphasis of the program in Years III and IV, are the professional courses in chiropractic studies, psychomotor skills, clinical education, and the related health professional courses (business, jurisprudence, ethics and professionalism, research, etc.).

CMCC prepares tomorrow's chiropractors to be clinically competent, confident and successful members of the health care team. Graduates are eligible to write national licensing examinations and enter clinical practice as primary contact health care professionals, and may pursue graduate studies, research and teaching.

Graduate

CMCC's Graduate Studies program provides advanced programs of postgraduate study delivered in structured pathways that emphasize excellence in clinical skills, research, teaching, learning and leadership.

CMCC currently offers two postgraduate programs:

- Chiropractic Residency Programs — postgraduate academic programs where diagnostic and clinical skills developed at the undergraduate level are further enhanced through external clinical and research practica. Upon graduation, students are eligible to write Fellowship examinations in their respective chiropractic specialty college.
- Work Disability Prevention Program — a contemporary postgraduate certificate program aimed at educating health professionals to appropriately coordinate processes for the effective return of the disabled worker to the workplace.

In cooperation with the Anglo-European College of Chiropractic, CMCC offers eligible health care professionals access to apply to a program leading to a Master of Science, Advanced Professional Practice degree which is validated by Bournemouth University, UK.

Continuing Education

CMCC offers an extensive array of continuing education programs, primarily to chiropractors, to assist them in meeting the ever changing needs of professional practice in order to serve and promote the health of society through a commitment to:

- lifelong learning
- self directed study
- maintaining awareness of current health care issues
- improved patient care

Research

CMCC is recognised as one of the most innovative chiropractic institutions in North America, focusing on basic and applied research related to neuromusculoskeletal interactions and the study of chiropractic's role in integrated care and health promotion.

Faculty and students conduct research across a broad span of topics that extend from the biological sciences (e.g., disc regenerative biology, cellular inflammatory mechanisms, and models of joint disease) to applied mechanics (e.g., joint biomechanics, spinal manipulation and elastography of soft tissues). CMCC's research into interprofessional health dynamics has earned international respect. Faculty research in this area has included using systems dynamics to explore jurisdictional control in health care delivery and the influence of chiropractors on the health of Canadians.

In 2012, CMCC, in collaboration with the University of Ontario Institute of Technology (UOIT), opened the UOIT-CMCC Centre for the Study of Disability Prevention and Rehabilitation, dedicated to building the framework for new evidence informed approaches to health care delivery in Canada.

Current and relevant research informs CMCC's undergraduate curriculum as knowledge is integrated into the program to benefit students and to enhance patient care.

To ensure that students continue the tradition of excellence as consumers of research, translating evidence to patient centred practice, the completion of a research related literature synthesis is a requirement. An elective research project is available to those

students who have special interest or are considering a research track in their career. CMCC student investigations have achieved outstanding success in research competitions with awards in topics ranging from biomechanics to interprofessional collaboration.

CMCC has established the McMorland Family Research Chair in Mechanobiology, the first independent chiropractic institution to create such a chair. The strong foundation in research that CMCC graduates carry with them is also seen in the fact that the majority of chiropractic research chairs in universities across Canada are CMCC graduates. This emphasis on research will ensure that CMCC continues to be highly regarded for the quality and innovation of its research programs.

Faculty

CMCC faculty members are leaders in their fields and are widely known for their active contribution to the enhancement of patient care, service to professional organizations and regulatory boards, and the advancement of knowledge through scholarly research, publications and presentations.

Chiropractic Techniques Taught at CMCC

The chiropractic adjustment is the treatment modality upon which the chiropractic profession was founded. While there is a range of approaches utilized by chiropractors around the world, the curriculum at CMCC centres around diversified technique. The criteria used to select procedures taught in the curriculum includes quality, safety and effectiveness of treatment. To assess these criteria, best evidence is utilized as well as consensus opinion of the faculty.

Student Performance Indicators

CMCC is proud of the quality of its students, the reputation of its faculty and staff, and the innovative design of its curriculum. These qualities are reflected in the very high percentage of students who graduate (an average of 89.5 per cent over the last five years) and the ratio of those who enter active practice. In the most recent survey completed on behalf of the Government of Ontario, over 95 per cent had begun practicing within six months of graduation. Over the past 15 years, CMCC students have had an average pass rate of 97 per cent on Canadian Chiropractic Examining Board examinations and are well prepared for practice.

Professional Opportunities

There is an abundance of opportunity for chiropractors in health care today. Graduates are currently practicing in 38 countries, most commonly in private practice, as sole proprietor or as associates; however, an increase in the number of multidisciplinary health care facilities in Canada has led to new opportunities for health care professionals to collaborate in providing care. For instance, some chiropractors work in hospitals and other health care institutions, while others pursue graduate studies in related fields.

Statement of Equal Opportunity

CMCC affirms its commitment to provide equal opportunity in accordance with relevant legislation. CMCC will not discriminate nor tolerate discrimination on the basis of race, colour, religion, sex, age, national origin, marital status, sexual orientation, gender identity, genetic information, or against any qualified individual with disabilities in its employment practices, patient care, or in the admission and treatment of students.

Accessibility Commitment Statement

Canadian Memorial Chiropractic College is committed to excellence in serving all employees, students, patients and visitors including people with disabilities.

CMCC will comply with the standards and regulations under the *Accessibility for Ontarians with Disabilities Act, 2005* as required, and when introduced and become law.

CMCC is dedicated to meeting the requirements of the Integrated Accessibility Standards Regulation, specifically the standards for Information and Communications and Employment, and to meeting the accessibility needs of persons with disabilities in a timely manner.



Significant Dates

August 2014

4	Monday	Civic Holiday – CMCC closed
5	Tuesday	Graduate Studies Residency Programs begin
25	Monday	Undergraduate Program begins

September 2014

1	Monday	Labour Day – CMCC closed
10	Wednesday	CMCC annual BackSwing golf tournament
18	Thursday	CMCC's 69th Anniversary

October 2014

13	Monday	Thanksgiving – CMCC closed
31	Friday	Deadline for application to CMCC Undergraduate Education Program for 2015 – 16

November 2014

7	Friday	Board of Governors Annual Meeting
8	Saturday	CMCC Annual General Meeting
15	Saturday	Deadline for application to Graduate Studies Residency Programs for 2015 – 16
20	Thursday	Undergraduate Awards Ceremony
30	Sunday	Deadline for withdrawal without penalty, Year IV

December 2014

22	Monday	Holiday break begins, Years I – III
25	Thursday	Christmas Day – CMCC closed
26	Friday	Boxing Day – CMCC closed
29 – 31	Monday – Wednesday	CMCC holidays – CMCC administrative offices closed Clinic and Library open holiday hours

January 2015

1	Thursday	New Year's Day – CMCC closed
2	Friday	CMCC Holiday – CMCC closed
5	Monday	Classes resume, Years I – III
31	Saturday	Deadline for withdrawal without penalty, Years I – III

February 2015

16	Monday	Family Day – CMCC closed
19	Thursday	Practice Opportunity '15

March 2015

19 – 21	Thursday – Saturday	Association of Chiropractic Colleges Educational Conference and Research Agenda Conference
23	Monday	Spring break begins, Years I – III
30	Monday	Classes resume, Years I – III

April 2015

3	Friday	Good Friday – CMCC closed
6	Monday	CMCC holiday – CMCC closed
24	Friday	Board of Governors Semi-Annual Meeting Graduation Citizenship Awards Board of Governors Class of 2015 Graduate Reception
26	Sunday	CMCC annual Backs in Motion '15 10k – 5k Run/Walk

May 2015

18	Monday	Victoria Day – CMCC closed
23	Saturday	Internship year ends, Class of 2015
25	Monday	Internship year begins, Class of 2016
29	Friday	Undergraduate Program ends, Years I – III

June 2015

5 – 6	Friday – Saturday	Homecoming 2015
19	Friday	70th Convocation

July 2015

1	Wednesday	Canada Day – CMCC closed
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Services

Student Services

Telephone: 416 482 2340 ext. 147 Fax: 416 646 1114 Email: admissions@cmcc.ca

Students come to CMCC with high aspirations and enthusiasm. The Division of Student Services is dedicated to providing resources and support to help students realize their goals and have a positive student experience. Whether it is advice on personal or academic issues, financial aid, information regarding the general functioning of CMCC, or just the need for a smile and a friendly ear, Student Services welcomes and responds in a professional and caring manner, fostering trust, accountability and collegiality between the administration and the student body.

Academic Advising

Student Services provides academic advice, clarifies policies, regulations and procedures, and handles formal student appeals. Students concerned about their progress are encouraged to approach faculty members and their Director of Education.

Financial Aid

The Financial Aid Administrator assists students with their loan applications and organizes sessions to assist students in financial planning.

Student Awards

CMCC offers over \$135,000 in awards and scholarships each year. See page 34 for awards, scholarships and bursaries available for CMCC students.

Housing

CMCC has no facilities for student housing. Student Services partners with Places4Students.com, an off campus housing service that specializes in providing students, schools and landlords with the highest quality rental listing service possible. Students are advised to begin their search for accommodations in June. Please note that CMCC assumes no liability, makes no representations, and cannot be held liable with respect to any arrangements entered into, or agreed upon, between students and landlords.

Parking

Student parking is administered through Student Services. Limited parking is available. Parking applications are emailed to all CMCC students during the summer.

Peer Tutoring

Student Services arranges for peer tutors to help students with assignments or to prepare for assessments.

Personal Counselling

Student Services provides counselling services to help students with personal or academic issues and to assist chiropractic interns with challenges related to their work with patients.

Registrarial Services

Registrarial services include the following: transcripts and grade reports, duplicate diplomas, notarization of official documents, confirmation of enrolment, missed examination documentation, and at-risk student advising.

Accommodations for Students with Disabilities

Students with documented disabilities can work with Student Services to identify a plan for accommodation to minimize barriers to their academic success.

Health Services

Chiropractic Services

CMCC clinics offer chiropractic services to the public, faculty, staff and students. The clinics also offer a valuable service to field practitioners, who may refer their patients for consultation, examination, imaging and care. Shockwave therapy and orthotic services are also available.

Complementary and Alternative Medicine

CMCC offers the services of a registered massage therapist and an acupuncture provider at the Campus Clinic.

Rehabilitation Services

CMCC's Campus Clinic offers services to patients who have experienced workplace, motor vehicle and sports related injuries, and helps them return to activities of normal living.

Diagnostic Imaging Services

CMCC offers professional high quality diagnostic imaging services for Doctors of Chiropractic in the Greater Toronto Area. Interpretations are available from a Fellow of the College of Chiropractic Radiologists (Canada) Inc. who is also a Diplomate of the American Chiropractic Board of Radiology.

Information Technology Services

Helpdesk: Room 329A Telephone: 416 482 2340 ext. 269

Email: helpdesk@cmcc.ca

CMCC's Division of Information Technology (IT) manages CMCC's computing environment, telecommunication, printers, copiers, business applications and user accounts. The IT Helpdesk is available for assistance with email, access to CMCC's internal network, the learning management system, and the wireless network.

All CMCC students are provided with a personalized "@cmcc.ca" email address in Year I, the use of which is mandatory for CMCC communication throughout the entire program.

Detailed information and user instructions can be found on the Information Technology section of MyCMCC under the Resources tab.

Supply Centre and Bookstore

Telephone: 416 482 1532 or 1 800 268 8940 Fax: 416 482 9745

Email: bookstore@cmcc.ca Website: www.cmccstore.ca

Hours of Operation: Monday to Friday 9:00 a.m. to 5:00 p.m.

CMCC operates a Supply Centre and Bookstore serving students, alumni, chiropractors and members of other health care professions. Revenues generated by the Supply Centre and Bookstore are reinvested directly into the growth and development of the chiropractic profession, through the support of education and research programs within CMCC.

The Supply Centre and Bookstore offers an extensive product line that includes professional and educational textbooks and manuals, treatment tables, anatomical models and other educational materials, in addition to a broad range of chiropractic supplies and rehabilitation products, such as pillows, nutritional supplements and vitamins and more, all offered at competitive pricing.

CMCC's Supply Centre and Bookstore is one of the largest distributors of chiropractic educational and professional health care supplies across Canada.

Alumni Affairs

Telephone: 416 482 2340 or 1 800 669 2959 ext. 146 or 184

Fax: 416 482 3629 Email: alumni@cmcc.ca

Website: www.cmcc.ca/studentmembership

CMCC's Division of Alumni Affairs seeks to foster a lifelong, mutually beneficial relationship with its students, alumni and members, some of whom are alumni from other chiropractic programs.

Entrance into CMCC's undergraduate Doctor of Chiropractic program is the first phase of a longer term relationship between a student and his/her future Alma Mater. Alumni Affairs is committed to developing this relationship and maintaining programs that support its alumni and members in each phase of their professional career. Relationship strategies include a CMCC magazine, annual Homecoming celebrations, provincial receptions, and events designed to raise awareness about CMCC and its needs, and the chiropractic profession.

Alumni and non-alumni members have access to a comprehensive benefits program which supports day to day professional practice, continuous learning and professional development. Students have access to an online database of professional practice opportunities as well as the annual Practice Opportunity event where they can meet suppliers to the profession, and chiropractors who are selling their practices or hiring associates or current students.

Students can become more actively involved in alumni events through participation in the class ambassador program.

CMCC is proud to serve and support its 6,700 alumni.

Academic Facilities

Clinical Facilities

Telephone: 416 482 2546 Fax: 416 646 1115

CMCC operates teaching clinics throughout the Greater Toronto Area. These clinics have state of the art chiropractic tables and therapeutic modalities. The Campus Clinic also has a digital imaging facility.

CMCC Teaching Clinics

- **Bronte Harbour Chiropractic Clinic**
CMCC's Bronte Harbour Chiropractic Clinic is located in Oakville in a residential neighbourhood close to high density housing and seniors' residences, providing access to a diverse patient population. This clinic has a strong partnership with Halton Region's Income and Employment Services Division, which refers patients with musculoskeletal conditions.
- **Campus Clinic**
The largest clinic, the Campus Clinic provides chiropractic care to the public as well as CMCC students and employees. It also houses the administrative offices, clinical teaching laboratory, diagnostic imaging services and complementary health care services.

Interprofessional Collaborative Teaching Clinics

- **Anishnawbe Health Toronto**
The CMCC clinic at Anishnawbe Health Toronto addresses the health concerns of the aboriginal population in downtown Toronto. The aboriginal health care model is based on a fundamental philosophic principle: that a person's life is composed of four critical dimensions—physical, mental, emotional and spiritual. Interns at Anishnawbe practice in a multidisciplinary environment, working with traditional native healers, physicians, nurses and other allied health professionals.
- **Aptus Treatment Centre**
At the Aptus Treatment Centre, CMCC clinical faculty and interns work with psychologists, social workers, occupational therapists, expressive art therapists and music therapists to assess, examine and treat musculoskeletal ailments in these specialized populations of adults and children who are behaviourally, mentally and physically challenged.
- **Sunnybrook Health Sciences Centre's St. John's Rehab**
The CMCC clinic at St. John's Rehab provides treatment to patients and staff of the hospital as well as members of the surrounding community. Interns work alongside other health professionals at St. John's and within the local community to provide quality, patient centred care within an evidence based model.

- **St. Michael's Hospital**
The Chiropractic Clinic at St. Michael's Hospital (SMH) is housed within the Department of Family and Community Medicine's Academic Family Health Team (AFHT) in downtown Toronto. Other professionals offering care within the AFHT are family physicians, nurses, nurse practitioners, psychologists, dietitians, social workers, pharmacists, occupational therapists and dental hygienists. Interns and graduate student residents, working alongside these other health care professionals, not only provide patient care, but are involved in many different learning experiences including interprofessional rounds and activities.
- **Sherbourne Health Centre**
CMCC's clinic within the Sherbourne Health Centre offers an integrative model of health care. Among the patients who attend the facility are those who face barriers in access to basic health care services including the marginalized, homeless or under-housed, and those with mental health concerns or HIV/AIDS. Interns collaborate with other health care providers to ensure that patients receive optimal care.
- **South Riverdale Community Health Centre**
South Riverdale Community Health Centre provides treatment to patients experiencing difficulty accessing conventional medical, social and community services. Patients, mainly adults and seniors, are often afflicted with comorbidities which can complicate musculoskeletal conditions. Interns at CMCC's clinic interact with the family practice physicians and nurse practitioners to ensure quality patient care.

Teaching Laboratories

Biochemistry, Microbiology, Laboratory Diagnosis Laboratories

In these laboratories, equipment includes:

- diagnostic test kits utilized in biochemistry laboratory exercises
- facilities for the isolation and identification of microorganisms by means of culturing, preparing slides, staining, microscopy and serology
- a wide variety of charts, special guides, blood drawing equipment, various types of diagnostic test kits, and prosthetic arms which are unique to Laboratory Diagnosis

Diagnostic Imaging Laboratories

The diagnostic imaging interpretation laboratories are equipped with traditional view boxes as well as SMART Board® technology. CMCC has an extensive collection of teaching files for imaging interpretation, which is housed in these laboratories and includes a wide selection of normal and abnormal radiographs and advanced imaging cases that are available for student self study.

Three radiographic suites, complete with three non-ionizing machines and related equipment, are set up for students to practice radiographic positioning in a realistic environment. The Campus Clinic houses diagnostic imaging suites where interns take X-rays as part of patient care. Two phantoms (PIXY) allow students to perform an unlimited number of radiographic exposures to perfect their technique.

Simulation Laboratories

CMCC provides students with learning laboratories for diagnostic and clinical skills development and assessment.

- The Manikin Based Simulation Laboratory, with its highly sophisticated computerized manikins, allows students to experience a wide variety of rare and/or serious conditions which may be seen in a chiropractor's office. CMCC is the first independent chiropractic program to implement this technology fully into its curriculum.
- The Force Sensing Table Laboratory provides students with quantitative feedback on spinal manipulative psychomotor skills through the use of adjusting tables that are capable of assessing several biomechanical parameters of the adjustment.

Histology and Pathology Laboratory

This facility is equipped with laboratory benches, microscopes, digital microscopic projection and video monitors which are shared by the two disciplines. Various sets of specially produced microscope slides are provided for each field of study.

Human Gross Anatomy Laboratory

CMCC, through its Department of Anatomy, requires its students to complete practical (dissection) courses in Human Gross Anatomy and is one of only 10 educational institutions designated as a school of anatomy under the authority of the Anatomy Act of the Province of Ontario.

Fully articulated skeletons, view boxes and a number of gross anatomy and neuroanatomy prosections are available for student review. To enhance student learning, video equipment allows students to view instrumentation, dissection procedure techniques, and minor microscopic neurovascular anatomical structures.

The John W. A. Duckworth Memorial Museum

The John W. A. Duckworth Memorial Museum of Anatomy was established in 1995 in honour of Dr. John Duckworth, a former Professor of Anatomy at CMCC and the University of Toronto. The museum collection, which is continually growing, is comprised of unique specimens, many of which are dissections prepared by Dr. Duckworth himself. CMCC students, faculty and other health care professionals use the museum to enhance their studies and research.

Psychomotor Skills and Clinical Diagnosis Laboratories

These laboratories are equipped with chiropractic adjusting tables, posture measurement equipment, fully articulated skeletons, and audio visual equipment, which includes closed circuit television.

Research Laboratories

Biomechanics and Elastography Laboratory

The Biomechanics and Elastography laboratory is equipped with optoelectronic, electromagnetic and accelerometer sensing systems for measuring movement of the body and its anatomical parts. Myoelectric measures monitor muscle activity used to create movement or forces applied through the skeleton. Together with a tri-axial force plate and axial force sensing technology, information is gathered for input to forward/inverse dynamics computer models that estimate the risk of injury and the beneficial effects from treatment. A gait platform and gait mat system measure the dynamics of walking, running and jumping. Ultrasound Elastography is used to visualize the internal activity, displacements and strains acting through the different soft tissue layers during activity or application of treatment. Various measures serve as inputs to biomechanical computer models for the study of tissue and joint loads during activity or from treatment.

Tissue Testing Laboratory

The Tissue Testing Laboratory is equipped with small animal and spinal segment materials testing systems. Using cadaveric tissues, the mechanical properties are explored under the influence of different conditions of tensile or compressive force, speed and length of displacement. Knowledge of how different tissues respond to loads is used in understanding the risks of injury and the way in which forces can act on tissues to stimulate metabolism, growth or injury.

Materials and Fabrication Laboratory

The Materials and Fabrication Laboratory is an onsite mechanical shop facility available for the development and manufacture of custom materials in support of investigators in other laboratory settings.

Neurophysiology Laboratory

The Neurophysiology Laboratory is designed to evaluate the responses of the peripheral and central nervous system to various stimuli of the musculoskeletal tissues and internal organs. A particular area of interest is the influence of peripheral stimulation on spinal cord blood flow in healthy and unhealthy states including spinal stenoses and compressive neuropathies.

Cellular and Molecular Biology and Histology Laboratory

This laboratory focuses primarily on the inflammatory response and how it is influenced by mechanical and physiological states of the body. Tissues are prepared and stabilized for evaluation of protein and connective tissue content. Working in collaboration with researchers at university centres, tissues can be stabilized for transport for more advanced testing.

CMCC Health Sciences Library

Telephone: 416 482 2340 ext. 158 Fax: 416 482 4816 Email: librarian@cmcc.ca
Website: www.cmcc.ca/library

The CMCC Health Sciences Library is the largest English language chiropractic library in Canada. It houses extensive collections of books, journals, audiovisual and reference materials and is comprised of a large open reading room, a silent study area, a computer laboratory and several multimedia and group study rooms and archives. In addition, the Library hosts electronic access to a wide array of online information resources for students, faculty, staff and CMCC members.

The Library is a cornerstone for creating and maintaining an intellectual environment in support of educating chiropractors, fostering scientific investigation and research, and providing continuing education. Resources in all formats are searchable through the online catalogue by author, title, subject, call number and keyword.

CMCC Archives hold a wealth of information relevant to the history and development of both CMCC and the chiropractic profession throughout Canada and North America.

CMCC is a member of the Health Science Information Consortium of Toronto (HSICT), a collaboration of libraries and information centres in teaching, community hospitals, public health units and other health care institutions across the Greater Toronto Area.

Students' Council

Telephone: 416 482 2340 ext. 162 Email: sc@cmcc.ca

The Students' Council (SC) represents the CMCC student body by acting as a liaison among students, administration and faculty. The SC appoints elected student representatives to participate on various CMCC committees in order to represent the students' perspective and best interests. In addition, SC coordinates numerous social and athletic programs as well as various student club events, which engage students in a wide variety of interests.

Elected annually in April by the student body, the SC includes the following positions: President, Vice-President, Treasurer, Secretary, Social Director, Publicity Director, two Yearbook Editors, a female and male Athletic Director, and two class representatives from each year of study.

All students in good academic standing at CMCC are eligible to run for office; however, certain executive positions require previous Students' Council involvement. Becoming a member of the SC is an excellent way to develop and demonstrate leadership, and organizational and team building skills, which allow students to take an active role in their education as well as within the student chiropractic community.

The SC engages students in the community in many ways, such as through arranging food and clothing drives for local shelters, and organizing various fundraisers for community organizations.

The SC works very closely with the President, the Registrar and the Dean, Undergraduate Education. These relationships foster an undeniable collaborative spirit that continues to solidify CMCC's reputation as one of the premier chiropractic institutions in the world.

Undergraduate Education Program

Telephone: 416 482 2340 ext. 179 Fax: 416 488 0470 Email: undergrad@cmcc.ca

Dean, Undergraduate Education

Lenore Edmunds, BA, MEd

Director of Education, Year I

J. Kim Ross, BSc, MSc, DC, PhD

Director of Education, Year II

Marion McGregor, BSc, DC, FCCS(C), MSc, PhD

Director of Education, Year III

Michael A. Cioffi, BPE(Hons), BSc, DC, MBA

Associate Dean, Clinics

Anthony Tibbles, BSc(Hons), DC, FCCS(C)

Directors of Clinical Education and Patient Care

Philip Decina, DC, FCCS(C)

TBA

Director, Curriculum and Faculty Development

Loretta Howard, BSc, MEd, EdD

Director, Integrated Learning

Oryst Swyszcz, BSc, DC

Director, Library Services

Margaret Butkovic, LT

Educational Coordinator, Simulation Lab

Dominic Giuliano, BSc, DC

Introduction

In 2005, the Canadian Memorial Chiropractic College received Ministerial consent to confer a Doctor of Chiropractic degree to graduates of its Undergraduate Program. The CMCC program is a comprehensive, integrative curriculum, aligned with CMCC's Model of Care and designed to ensure the following critical performance outcome: that graduates of the CMCC Doctor of Chiropractic program are primary contact health care professionals with expert knowledge in spinal and musculoskeletal health, emphasizing differential diagnosis, patient centred care and research.

CMCC Model of Care Statement

Chiropractic is a primary contact health care profession with expert knowledge in spinal and musculoskeletal health, emphasizing differential diagnosis, patient centred care and research.

Graduate Competencies

To achieve the critical performance outcome, upon successful completion of the Doctor of Chiropractic program, the qualifying person will have demonstrated the ability to:

1. **Obtain** an in-depth patient history by utilizing adequate knowledge of pathophysiology, and the basic and clinical sciences.
2. **Conduct** a competent physical examination, with particular emphasis on the neuromusculoskeletal system.
3. **Recognise** indicators of patient psychosocial and health behavioural factors that are associated with risk of developing chronic illness/pain.
4. **Order** and interpret specialized testing procedures, such as diagnostic imaging and clinical laboratory tests, as indicated by the clinical status of the patient.
5. **Identify** and appropriately respond to clinical findings suggesting the presence of conditions, risk factors and/or life threatening situations requiring emergency or urgent care.
6. **Formulate** a differential diagnosis that identifies the nature and cause of a patient's complaint and/or abnormal finding.
7. **Manage** a patient's case effectively by developing a patient care plan, including patient education and informed patient preference that is consistent with findings obtained from the history, examination, diagnosis and needs of the patient.
8. **Collaborate** on an inter- and intra-professional basis for patient referral and/or collaborative care, as necessary.
9. **Perform** effective adjustive, manual and/or manipulative procedures with appropriate modification of treatment parameters to accommodate the particular needs of the patient's comorbid pathology, or congenital or post-surgical anatomical variation.
10. **Employ** effective procedures and modalities, other than the adjustment and manipulation, for the purposes of case management, rehabilitation, wellness care or improved quality of life.
11. **Manage** information effectively by accurately recording patient information, including evaluation, diagnosis, clinical care and other transactions; and by retrieving, analyzing and interpreting information using a range of methods, including current computer technology.
12. **Evaluate** patient progress by engaging in effective case follow-up procedures including monitoring the clinical status of the patient and modifying the diagnosis(es) and care plan as new clinical information becomes available.
13. **Model** a professional and patient centred relationship by building mutual trust, respect and confidence, communicating effectively, demonstrating compassion and being sensitive to a patient's biopsychosocial needs.

14. **Practice** in a patient centred manner congruent with current professional standards including serving patients and society by excelling at providing competent and effective care, demonstrating ethical values and behaviours, and maintaining knowledge and clinical skills through continuing education.
15. **Utilize** current knowledge, and access, understand and critically evaluate research literature to promote effective patient centred care.
16. **Employ** sound conceptual, psychosocial and business skills in order to develop and maintain a successful chiropractic practice.

Program Presentation and Assessment

The program combines lectures and laboratories, Small Group sessions, Team Based Learning (TBL), Self Directed Learning (SDL), and Clinical Education courses that integrate learning across courses on a weekly basis. In addition, multidisciplinary case based forum presentations known as Grand Rounds help students develop clinical skills through observation and participation in a typical doctor-patient encounter.

CMCC utilizes a learning management system (LMS) to support the web facilitation of content in each course. Web resources and technologies are used to complement face to face sessions. In addition, some courses may be offered in a hybrid or online format. Hybrid courses blend elearning with face to face delivery. In a hybrid course, substantial parts of the content are delivered online and discussions, team projects and activities are used to augment learning. Online delivery includes courses in which all or almost all of the content is web based with few if any face to face meetings. Delivery methods include multimedia, video conferencing, social networking and the use of learning objects.

Regardless of the delivery format, each course has its own site on the LMS on which faculty post syllabi, readings, assignments, relevant course activities and other resources. In addition, students can use the LMS to track their academic progress over the year.

Students can use computers in the library or their own personal computer, laptop, tablet or web-enabled personal device to access the LMS, which CMCC has branded KIRO. An orientation to the LMS is provided to all Year I students. Basic technological skills are required to access the LMS, download course materials, and complete learning modules in hybrid and online courses. Familiarity with Microsoft Office software including Word, PowerPoint and Excel is also needed.

Course outlines inform students of the assessment criteria to be used in a particular course and indicate whether each course is web facilitated, hybrid or online, and include the number of face to face and online sessions.

The composition of a final grade may include, but is not limited to, examinations, quizzes, term tests, laboratory examinations and assignments, problem sets, case write-ups, essays, oral class presentations, take home examinations, attendance, verbal participation, TBLs, HPDs (History, Physical and Diagnosis assessment), OSPEs (Objective Structured Practical Examinations), OSCEs (Objective Structured Clinical Examinations), and practical examinations. Students must meet the published requirements in each course to avoid academic penalties.

Undergraduate Admissions

Telephone: 416 482 2344 or 1 800 463 2923

Fax: 416 646 1114

Email: admissions@cmcc.ca

CMCC welcomes applications for the Doctor of Chiropractic program through three admissions streams: general admissions, advanced entry admissions and undergraduate student transfer. The majority of applicants to CMCC do so through the general admissions stream. All applicants must meet the minimum academic standards and admissions requirements as detailed below. Students applying for advanced entry admissions or undergraduate student transfer may be subject to additional minimum standards. More information on admissions requirements is available at www.cmcc.ca/admissions.

Admissions Requirements

All Applicants

- The minimum academic requirement for admissions is a cumulative grade point average (CGPA) of 2.50 on CMCC's 4.00 grade point scale from at least three full years (15 full year courses or 90 credit hours) of undergraduate university level study.
- Marks obtained from graduate level study (Master's or Doctoral) are not calculated in the CGPA. Following a successful admissions interview, applicants holding Master's or Doctoral degrees at the time of the application deadline will be ranked at the 75th percentile of the admissions pool, or will be ranked according to their undergraduate CGPA, whichever is higher.
- All academic requirements must be completed no later than May 31 of the year of registration at CMCC.

English Language Proficiency Requirements

Students for whom English is not a first language will be asked to identify such on their application, and may be required to submit evidence of their proficiency in English by demonstrating:

- Sufficient university level course work in English; and/or
- A minimum score of 88 on the internet based Test of English as a Foreign Language (TOEFL); and/or
- A minimum score of 7.0 on the International English Language Test System (IELTS).

For more information about TOEFL, please visit www.ets.org/toefl (CMCC's institutional code is 8866), and for more information about the IELTS, please visit <http://ielts.org>

Additional Requirements for Students Studying in Canada

- Applicants who study in a university transfer program at a college must subsequently complete one full year of undergraduate study (30 credit hours) at a university in Canada prior to entering CMCC. Transcripts from both institutions are required by CMCC.
- Applicants from the province of Québec must complete two years of appropriate study in a CEGEP program, with successful completion of the Diplôme d'Etudes Collégiales (DEC), and at least two full years (10 full year courses or 60 credit hours) of undergraduate university study in Canada.

Additional Requirements for Students Studying in Foreign Universities and International Students

Immigration Requirements

- Foreign nationals are required to hold and present a valid study permit from Citizenship and Immigration Canada (CIC) in order to register at CMCC. CMCC will retain a copy of the student's study permit for the duration of his/her academic program, subject to institutional requirements as determined by CIC. More information is available at www.cmcc.ca/international.

Transcripts and Documentation

- Transcripts from institutions outside of Canada must be evaluated on a course by course basis by World Education Services, Inc (WES). This is the only agency from which CMCC will accept foreign transcript evaluations.
- Applicants must set up an account with WES, designating CMCC as a recipient. Official copies of transcript evaluations must be forwarded directly by WES to CMCC. For more information, please contact World Education Services, Inc. www.wes.org/ca.
- Notarized English translations of documents and certified true photocopies of the originals of all documents that are in a language other than English must be provided at the time of application.

Health Insurance

- International students who are not residents of Canada must enroll in the personal health insurance plans offered by Students' Council at the time of registration.

Additional Information for all Applicants

- Although not mandatory, it is recommended that applicants have completed one full course, with labs, in organic chemistry and biology; one half course in introductory psychology; and at least one and one half courses in humanities and/or social sciences.
- It is the student's responsibility to enquire with the regulatory body for the jurisdiction and program standards in which he or she wishes to practice to ensure that CMCC entrance requirements meet the eligibility requirements for pertinent licensing board examinations.
- Qualified applicants will be granted an admissions interview.

Application Process - General Admissions

Application Deadline

An application must be completed online at www.cmcc.ca. The deadline for receipt of applications and all the required documentation for general admission is October 31 at 11:59 p.m. Due to the nature of the selection process, the deadline for receipt applies to all documentation and cannot be extended.

Application Fee

All applications are subject to a non-refundable application fee, payable online by credit card.

Submission of Documentation

The following documentation is required to be received in the Division of Student Services by the published deadline:

- online application
- official academic transcripts from all postsecondary institutions at which the applicant has been registered
- all additional documentation required for international applicants or those studying in a foreign university

Provisos

- Failure by the applicant to comply with the application instructions or to meet the deadline for all documentation will result in cancellation of the application, and forfeiture of the application fee.
- An applicant supplying documentation or information that is found to be falsified, incomplete or misleading at the time of presentation, or subsequently, may be withdrawn from consideration. Any student admitted to the program having submitted incorrect information will be required to withdraw.
- CMCC reserves the right to make changes to admission requirements at any time without notice. Please visit www.cmcc.ca/admissions for up to date information.

Application Process: Advanced Entry Admissions

Students applying for advanced entry admissions do so under the terms and conditions of specific articulation agreements between CMCC and other postsecondary institutions. These agreements are designed to facilitate accelerated pathway to degree completion. At this time, institutions with which CMCC has entered into articulation agreements include:

- University of Ontario Institute of Technology (UOIT)

Institutions with which CMCC has articulation agreements set specific standards for admission into degree pathways and options that will position the student to apply for advanced entry admission to CMCC in their second year of undergraduate study. The application to CMCC is typically submitted in January of the student's second year of undergraduate study. Upon completion of the minimum academic requirements as outlined in the articulation agreement, and upon successful completion of the admissions interview (held in June of the student's second year), the applicant may receive advanced entry admission to the Doctor of Chiropractic program. The offer of advanced entry admission is conditional upon the successful completion of all requirements as prescribed in the articulation agreement by the end of the student's third year of undergraduate study. More information about advanced entry admission is available at www.cmcc.ca/admissions.

Undergraduate Student Transfer

CMCC may accept transfer of credits from institutions accredited by the Council on Chiropractic Education Canada of the Canadian Federation of Chiropractic Regulatory and Educational Accrediting Boards, or institutions accredited by agencies that are members of the Councils on Chiropractic Education International, subject to the following conditions:

- The applicant must be eligible to return to the last institution attended.
- The credit hours being transferred must be for course work that is equivalent in credit hours, content and quality as determined by CMCC.
- Only credits with a grade of "B" (or its equivalent on CMCC's grade point scale) or better are considered for transfer.
- Transfer credits must be earned within five years of the date of admission to CMCC.
- No more than two years of credit may be granted for course work in another chiropractic program.
- The last two years of study must be completed at CMCC to qualify for graduation from CMCC.

Procedures

As there are a limited number of places available for transfer students, possession of the minimum requirements does not guarantee admission or transfer to CMCC.

Transfer applicants are required to:

- complete the online application before January 31
- pay a non-refundable transfer application fee of \$250 (in Canadian funds)
An application for transfer will not be considered until the fee is received.
- provide original transcripts from all postsecondary institutions and chiropractic programs at which the applicant has been enrolled. If transcripts come from outside of Canada, they must be evaluated by WES on a course by course basis. See page 23 for more information
- meet the current academic entrance requirements and be compliant with all entrance regulations
- demonstrate a minimum cumulative GPA of 2.70 on CMCC's 4.00 scale from previously attended chiropractic programs
- supply an official letter of recommendation from the institution from which the transfer is requested
- Successfully complete an admissions interview

All students who have requested a transfer will be notified of the outcome of their request by late June.

Admissions Processes

Enrolment is limited. CMCC will select the most qualified candidates for admission. Possession of the minimum requirements does not guarantee admission.

The Admissions Committee, in making its final selection, considers the academic assessment, interview, and all other information submitted with the application.

Academic Assessment

The academic assessment is based on all completed qualifying postsecondary courses reported at the application deadline. All qualifying postsecondary courses are converted to the CMCC 4.00 grade point scale.

Admissions Interview

Interviews are granted if the applicant meets the required undergraduate cumulative GPA of 2.50 on CMCC's 4.00 scale. The personal interview lasts approximately 30 minutes.

- The interview team considers six competencies that have been identified as being vital for success in chiropractic education. They include: communication, collaboration, management, health advocacy, scholarship and professionalism.
- Qualified candidates are notified of an interview date, time and location. Applicants who have not been granted an interview will also be notified.
- The interview fee is due in advance of the interview.
- On the interview date, applicants must provide proof of identity with an official government document that has a photograph, e.g., driver's license or passport.
- Telephone interviews may be granted in cases where applicants are residing outside Canada.
- All interviews are conducted in English.

Notification of Outcome

Applicants to the general admissions stream will be notified of their application outcome by mid March.

Some applicants may be given conditional offers of admission pending the successful completion of CMCC's academic entrance requirements. All courses must be successfully completed by the end of the winter term prior to admission, or the offer of admission will be withdrawn.

Unsuccessful applicants who wish to reapply are required to complete a new application and resubmit supporting documentation. Applicants reapplying for admission are required to meet the submission deadline for the next application cycle.

Acceptance and Registration

Applicants receiving an admission offer must confirm their intention to attend CMCC by submitting:

- a completed acceptance of offer/registration form
- a non-refundable acceptance/registration fee
- a post-dated cheque for the first tuition instalment

No student can proceed to register until the required confirmation of acceptance/registration fees are paid.

Registration Process

Students must complete and submit a Student Registration Agreement. In addition, the following documents must be provided by the stated deadline:

- final transcripts for their current year of study

- a note signed by an independent health professional indicating that the applicant has no health impediment to entering into the program
- results of a two-step tuberculin test (within last six months) and/or chest X-ray (within last 12 months). A positive test result must be reported to the Admissions office.
- standard First Aid Certificate and Basic Rescuer (CPR) Certificate, level C (adults/children and infants). Such courses can be completed with St. John's Ambulance (www.sja.ca), the Red Cross (www.redcross.ca), or the Heart and Stroke Foundation of Canada (www.heartandstroke.ca).

Deferred Admissions Policy

1. Deferred registration for a maximum of one year is granted only under exceptional circumstances. The applicant must direct the request, in writing, to the Registrar within two weeks of the offer of admission.
2. Deferral may be granted with the following provisions:
 - a) The applicant must submit a letter with supporting documentation outlining the exceptional circumstances for the deferral.
 - b) If the deferral is granted, the applicant must pay a \$500 non-refundable confirmation of acceptance fee made payable to CMCC, in the form of a certified cheque or money order.
 - c) The applicant must notify the Registrar by January 31 of the following year in order to confirm intent to attend CMCC.
 - d) If a deferral is granted, any subsequent changes in the admission requirements must be satisfied by the applicant.

Students with Disabilities

CMCC will provide accommodation to students with diagnosed and documented disabilities, as outlined in the Ontario Human Rights Code, subsection 10(1). An accommodation, however, cannot compromise minimum academic and technical standards, patient safety, or clinical standards of care. A student with a disability must be able to demonstrate the required knowledge and perform the necessary skills as required by the program.

Specifically, the disability must not be such as to prevent the student from communicating with patients and/or colleagues, making clinical observations, gathering and analyzing data requisite to arriving at professional judgments and diagnoses, and carrying out physical techniques and active components of patient care essential to chiropractic practice.

Students with learning, physical, sensory or medical disabilities are strongly advised to contact the Division of Student Services upon admission to CMCC in order to discuss accommodations.

The accommodations provided by CMCC are given within the context of the four year CMCC program only, and are not intended to extend to other situations such as future professional examinations (e.g., licensing examinations) or decisions regarding future licensure. Students with disabilities are strongly advised to consult the chiropractic regulatory board(s) in the country, province or state in which they intend to practice.

Please refer to the Academic Policies section for CMCC's policy on Students With Disabilities.

Fees and Financial Information

CMCC Funding Structure

CMCC is a not for profit organization, a registered charity under the Income Tax Act (Canada) and receives no direct government funding. The chiropractic profession continues to support CMCC through members who pay an annual fee, which helps to subsidize the cost of the students' education. Additional sources of funding are actively sought including the generous support of donors. CMCC students are eligible to apply for government financial aid, a process for which assistance is available from the Financial Aid office.

2014-2015 Tuition and Fees

	Tuition*	Student Activity	SCCA	Student Insurance	Total
Canadian	\$23,165	\$250	\$25	\$400	\$23,840
International	\$27,798	\$250	\$25	\$977	\$29,050

All fees are subject to change and to an annual increase.

* Tax deductible fees that are eligible for your T2202A.

Student Activity Fee

A student activity fee is due from all students at the time of registration. \$175 of this fee is collected on behalf of the Students' Council to fund the cost of Students' Council social events, athletic programs (including the weight room, gym equipment, pool and intramural sports), orientation, CMCC clubs, participation in other student activities. A Convocation fee of \$75 is also included.

Student Canadian Chiropractic Association (SCCA)

A membership fee for the Student Canadian Chiropractic Association is due from all students at the time of registration. As members of the SCCA, students are eligible to attend CCA and SCCA sponsored conventions and seminars. In addition, discounts are available at various retailers in Toronto.

Student Insurance for Canadian Students

All full-time Canadian students are charged a fee for the Students' Council Health & Dental Plan. The plan provides coverage for 12 months, from September 1 through August 31. If a student is already covered by an equivalent extended health and dental plan, he/she may opt out of the Students' Council Health & Dental Plan online, during the Change of Coverage Period. The Plan also provides the option to enrol a spouse and/or dependants at additional cost.

For more information, call 1 877 795 4422 or visit ihaveaplan.ca.

International Student Insurance

International students are required to carry health insurance arranged through CMCC and the Students' Council. This insurance is mandatory unless the student is able to provide evidence of coverage under a Canadian provincial health plan, and an equivalent extended health plan. This plan provides coverage for 12 months, from August 1 to July 31. More information about student health insurance is available by contacting the Division of Student Services.

2014-2015 Fee Payment Due Dates

	Canadian Students	International Students	Due Date
Year I	\$250 ¹	\$250 ¹	April 17, 2014
	\$13,750	\$16,200	June 2, 2014
	\$9,840	\$12,600	January 23, 2015
	\$23,840	\$29,050	
Year II & III	\$14,322	\$17,831	September 5, 2014
	\$9,518	\$11,219	January 23, 2015
	\$23,840	\$29,050	
Year IV	\$5,493	\$7,012	June 27, 2014
	\$10,971	\$13,624	September 5, 2014
	\$7,376	\$8,414	January 23, 2015
	\$23,840	\$29,050	

¹\$250 of the \$500 registration fee will be applied to the second instalment of Year I tuition.

Other Undergraduate Fees and Costs

Admissions

Application (non-refundable)	\$150
Interview (non-refundable)	\$150
Application for transfer (non-refundable)	\$250
Confirmation of acceptance/registration ¹ (non-refundable)	\$500

Administrative

Parking Pass (non-refundable)	\$650
Parking Card (refundable upon return)	\$25
Returned cheques (each)	\$40

Examination Fees

Official Re-read	\$50
Deferred Examination	\$75
Supplemental	\$100
Year I and II OSCE: Deferred or Supplemental Examination	\$100
Year III OSCE: Deferred or Supplemental Examination	\$150
Year IV Clinic Mid-term or Clinic Exit Examination: Deferred or Supplemental Examination	\$250
Year IV Clinic Mid-term or Clinic Exit Examination Component: Deferred or Supplemental Examination	\$100

Other

Transcript	\$10
Duplicate Diploma	\$40
Outreach Abroad	\$1,600
Supplies Year I (approx.) ²	
Diagnostic equipment	\$825
Spinal column model	\$190
Textbooks	\$1,850

¹\$250 of the \$500 registration fee will be applied to the second instalment of Year I tuition.

²All supplies are available from the CMCC Supply Centre and Bookstore. Contact the Supply Centre at 416 482 1532 or toll free 1 800 268 8940.

Financial Obligations

Students are responsible for paying their CMCC fees by the stated due dates. CMCC cannot be responsible for any loan payments that arrive after the tuition due date; interest charges related to any delays in the processing and advancing of any student loan proceeds to CMCC are the responsibility of the student.

Late Payment

- An interest charge will be applied to all overdue balances and will be calculated and compounded weekly at the rate of 12% per annum at the end of the business day every Friday. The interest rate charged is subject to change without notice.
- Students with outstanding balances could be subject to the following sanctions until full payment is made to CMCC: withholding of grades, denial of access to class or clinic treating privileges, denial of examination writing privileges, termination of library services and/or de-registration.
- Students will not receive their final grades or transcripts, will not be promoted to the next year, nor be permitted to graduate until all financial obligations to CMCC have been met.
- Provincial and state regulatory boards may be notified of any student who remains indebted to CMCC at the completion of Year IV.

Withdrawal and Refund Policy

Students who wish to withdraw must notify the Registrar in writing, by registered mail or personal delivery. Notification of withdrawal by telephone will not be accepted. Ceasing to attend classes does not constitute withdrawal. The date of withdrawal will be determined by the date of receipt of notification by the Registrar.

1. A full refund of tuition and related fees that have been collected will be made if a student rescinds the Student Registration Agreement by providing notice to CMCC within two days of signing the Student Registration Agreement as part of annual registration.
2. A full refund of tuition and related fees that have been collected less an administrative fee of \$500 will be made if:
 - a) the student gives the institution written notice before the program start date that the student does not intend to start the program; or,
 - b) the student does not give any notice to withdraw from the program before the program start date and does not attend the first 10 consecutive days of the program.
3. A refund of tuition and related fees that have been collected for services not yet provided, less an administrative fee of \$500, is given to the student if:
 - a) he/she gives the institution written notice of intent to withdraw after the program start date but before half of the program has been delivered – January 31 for Years I to III or November 30 for Year IV; or,
 - b) the program is discontinued or suspended for any reason.

4. CMCC calculates the refund of tuition by subtracting the amounts earned by CMCC for services provided, calculated on a monthly basis and rounded to the nearest quarter month, from the tuition fees paid in advance.
5. If eligible, a refund of the student health care premium will only be made up to September 15. After that, the premium is locked in and the student has coverage for the year.
6. All other fees (Student Activity, SCCA, parking) are neither refundable nor transferable upon the commencement of the program.
7. Before any refund is given to a student, all obligations to provincial or federal funding agencies will be made by the Financial Aid Office.
8. If a student is dismissed from CMCC for any reason, there will be no refund of fees and any outstanding accounts with CMCC become immediately payable.
9. If a student is entitled to and has made a demand in writing for a tuition fee refund and CMCC has not paid the amount of the refund within 30 days of the demand, or arranged for the Trustee to pay the amount of the refund within that period, the student may apply to the Trustee to have the refund directly paid to him/her out of the unearned tuition fee held in trust for that student [*Post-secondary Education Choice and Excellence Act, 2000* O. Reg. 279/02, s.10 (9)]. The student will be required to present a copy of the Student Registration Agreement in the event he/she makes a claim against the security.

Financial Assistance

Telephone: 416 482 2340 ext. 103 Fax: 416 646 1114 Email: finaid@cmcc.ca

Government Student Loan Programs

The Canada Student Loans Program is the financial assistance program in the form of loans and grants administered by the federal government and the nine participating provinces to assist eligible students to supplement the cost of postsecondary education. Please note that applicants must apply for a provincial or territorial student loan through their province of residence and must meet all eligibility and residency requirements. Further details are available on respective provincial student loan websites. Students are advised to apply early for government student loans, as it can take up to 12 weeks to process following receipt of the application. For further information, contact the appropriate Provincial Student Loans Office or the Financial Aid Administrator in CMCC's Division of Student Services. For your convenience, the addresses and contact numbers for Provincial Student Loan Offices and more information on applications are available on the CMCC website, www.cmcc.ca/financialaid, in the Financial Aid office or through the Canada Student Loans Program at www.canlearn.ca.

Bank Loans

All major financial institutions have student loan programs available to CMCC students. Bank loans are available to students in all years; however, bank loans and/or lines of credit have yearly and overall maximums of which students should be aware, as these maximums will impact their long term financial budgets for the four year CMCC program. We encourage all students to contact their bank and/or bank representative for detailed information, such as eligibility requirements, interest rates and applications for professional student lines of credit/loans.

Emergency Loan Fund

An emergency loan fund is maintained by CMCC. The maximum emergency loan available is \$500, which must be repaid within 30 days. Students are required to submit written proof to substantiate the status of the emergency. Emergency loan application forms may be obtained in the Student Services office.

Students' Council Emergency Loan Fund

The Students' Council maintains an emergency loan fund. The maximum emergency loan available is \$500, which must be repaid within 60 days. The Students' Council loan fund is intended to be a means of interim financing for students in an emergency situation. Students in financial need are required to submit written proof to substantiate the status of the emergency. Emergency loan application forms may be obtained in the Student Services office.

Awards, Scholarships and Bursaries

The generous financial support of groups, organizations and individuals provides an extensive breadth and variety of awards available to CMCC students, honouring academic and clinical excellence, as well as the dedicated service of deserving students.

Financial awards are based on varying criteria, as defined by each award. Academic excellence, financial need, essay submissions, character and leadership are among the more common criteria used in determining award eligibility.

The awards categories are as follows:

- Entrance Awards
- Undergraduate Awards
- Graduation Citizenship Awards
- Graduation Academic Awards
- Additional chiropractic awards not exclusive to CMCC students
- Faculty Awards

The value of the awards may vary depending on investment yields. **Applications will be available online by August.**

Students may also search for external financial awards not specifically targeted to chiropractic students at www.studentawards.com, a website maintained by Student Awards Inc.

Entrance Awards

CMCC Indigenous Student Scholarship

Eligibility: Year I, renewable Years II - IV

Letter of Intent and supporting documentation required at the time of acceptance

This four year renewable tuition scholarship is awarded to an Indigenous student who has demonstrated financial need and who has contributed, and intends to continue to contribute, to his/her community after graduation. A certification of Indigenous status is required along with a letter of intent. The scholarship is awarded to the qualifying applicant with the highest entering CGPA and is in the form of a 50% tuition credit that is renewable each year if the student maintains a minimum sessional GPA of 2.50 on a 4.00 point scale in the preceding year.

CMCC Entrance Scholarships

Eligibility: Year I

Minimum CGPA of 3.0 on a 4.0 scale at the time of admission

This award recognises the outstanding academic credentials of students entering their first year at CMCC. One \$5,000 award will be presented to the student with the highest overall CGPA and one \$3,000 award for the second highest CGPA. The student with the next highest CGPA from each province will also be awarded \$1,000.

CMCC World Olympian Scholarship

Eligibility: Year I, renewable Years II - IV

Letter of Intent and supporting documentation required at the time of acceptance

This four year renewable tuition scholarship is available to a former Olympian, recognised by the World Olympians Association, who has fulfilled the criteria for admission to CMCC and who has demonstrated financial need. The recipient must demonstrate that he/she intends to contribute to his/her community after graduation. The scholarship is awarded to the qualifying applicant with the highest entering CGPA in the form of a 50% tuition credit that is renewable each year if the student maintains a minimum sessional GPA of 2.50 on a 4.00 point scale in the preceding year.

CMCC World Spine Care Scholarship

Eligibility: Year I, renewable Years II- IV

This tuition scholarship is established by CMCC in cooperation with World Spine Care (WSC) to encourage, advance, and geographically broaden the practice of chiropractic to underserved countries throughout the world. Applicants must be from a country that is deemed by WSC to be underserved in chiropractic care. In addition to a minimum admission CGPA of 2.5 on a 4.0 scale, the applicant must complete a 2,000 word essay addressing: the need for chiropractic in their country of permanent residence; what the applicant plans to do with the education they will receive from CMCC to address the needs of their country's people; and how the applicant intends to advance the mission and goals of WSC. A letter of recommendation from WSC, and an approved study permit are required upon submission of the scholarship application. The recipient of this scholarship is required to return to their country of permanent residence within six months of graduating from CMCC, and to practice with WSC in that same country for a minimum of five years following graduation.

R. Lloyd Pennington Memorial Award

Eligibility: Year I

This award was established in 1985 in memory of Dr. Pennington. He was a founding member of the Governors' Club and was involved in interviewing prospective students for many years. It is given to the student who achieves the highest CGPA at the time of admission.

Undergraduate Awards

60th Anniversary Class Award

Eligibility: Year I, II, III, IV

The 60th Anniversary Class Award is co-sponsored by CMCC and the Canadian Chiropractic Historical Association in honour of CMCC's first 60th anniversary class, the Class of 1949. The award is presented annually to a student who demonstrates a particular interest in the history of the chiropractic profession. The Awards Committee selects the recipient based on the submission of a 1,000 word referenced paper on one aspect of the history of chiropractic in Canada.

Admissions Awards

Eligibility: Year I

Students who submit an essay (up to 1,000 words) entitled "Why I Chose Chiropractic as a Career" will be considered for a CMCC Admissions Award. The authors of the three top essays receive a credit which is applied to tuition fees.

David W. Artis Memorial Scholarship

Eligibility: Years I, II, III, IV

In tribute to the memory of Dr. David W. Artis, this scholarship is awarded to a student who has demonstrated an understanding of what it means to be a chiropractor. It is open to students in all years who submit an autobiographical sketch and an essay (250 to 700 words) on the topic, "What it means to be a principled chiropractor in the historical context and in present day practice."

Eva Bartlett Estate Scholarship

Eligibility: Years II, III, IV

The Eva Bartlett Estate Scholarship is given to a student from British Columbia with a good academic record, who has displayed service to the profession and CMCC. Official transcripts and a completed BC award application must be submitted to Student Services.

BC CMCC Alumni Association Scholarship

Eligibility: Year III

This scholarship is presented by the BC CMCC Alumni Association to a Year III student from British Columbia who had the highest academic standing in Year II. Official transcripts and a completed BC award application must be submitted to Student Services.

BC Walter Sturdy Award

Eligibility: Years II, III, IV

The BC Walter Sturdy Award is given to a British Columbia student who has displayed service to the profession and CMCC while maintaining a good academic record. Official transcripts and a completed BC award application must be submitted to Student Services.

The Canadian Chiropractic Association Award

Eligibility: Years II, III, IV

The Canadian Chiropractic Association Award is presented annually to the Student Canadian Chiropractic Association (SCCA) member who demonstrates exceptional dedication to chiropractic through the SCCA. Selection of the recipient is made by the SCCA President. Applications must be sent to: President SCCA, c/o CMCC, 6100 Leslie Street, Toronto, ON M2H 3J1.

The Canadian Chiropractic Association President's Award

Eligibility: Year IV

This award is presented to a Year IV student. The Awards Committee selects the recipient based upon the following criteria: academic performance, leadership qualities, participation in student organizations, and volunteer service outside of CMCC either prior to or during attendance at CMCC.

Canadian Chiropractor Magazine Award

Eligibility: Year IV

The Canadian Chiropractor Magazine Award was created to recognise a student who shows commitment of his/her time and energies toward the functions and activities of their Grad Fund over the four years.

Robert J. Cannon Performing Arts Award

Eligibility: Years I, II, III, IV

The Robert J. Cannon Performing Arts Award was established in recognition of Dr. Cannon's long term dedication to the care of the performing arts community. The recipient demonstrates a passion for the performing arts and a desire to provide ongoing care and preventive programs for the artist. An essay describing the applicant's artistic involvement and professional philosophy is to be submitted with the award application.

Chiropractic Auxiliary Award

Eligibility: Year IV

The Chiropractic Auxiliary presents an award to a Year IV student from Ontario who has high academic standing and who has shown an interest in student activities.

Class of 2002 Award

Eligibility: Year I

The Class of 2002 Award was established through a generous donation from the Grad Fund of the Class of 2002. The Awards Committee selects as the recipient a student who has demonstrated strong initiative in improving student life at CMCC or a previous institution.

Class of 2009 Award

Eligibility: Year II

Established by the Class of 2009 this award goes to a Year II student who is involved with and has contributed to his/her class in a positive, kind and altruistic manner. With input from the class through a secret ballot vote, the Awards Committee chooses a recipient whose contribution is not being recognised through any other award.

Terry Crilly Memorial Award

Eligibility: Years III, IV

A trust fund instituted by the classmates of the late Dr. Terry Crilly, Class of '79, makes this award possible. The Awards Committee selects as the recipient a student who has a good academic record and has given "service above self" to CMCC, fellow students or the community.

Giacomo d'Ambrosio Memorial Bursary

Eligibility: Year II

This award is presented in memory of Giacomo d'Ambrosio, Class of '81, by his family and friends. The Awards Committee recommends as the recipient a student who has achieved a high academic standing and demonstrates leadership either through involvement at CMCC or in community organizations.

John W. A. Duckworth Memorial Award in Anatomy

Eligibility: Year III

In recognition and appreciation of Dr. Duckworth's outstanding ability as a teacher, this award is presented to a student who has obtained the highest academic standing in the Anatomy courses in Years I and II.

Stanley Gdanski Memorial Fund

Family, friends, patients and colleagues of Dr. Gdanski created this fund to honour his many contributions to chiropractic. The purpose of the fund is to support the student community by contributing to the celebration that follows the Undergraduate Awards Ceremony.

Governors' Club Award

Eligibility: Years III, IV

The Awards Committee selects as the recipient a student who has maintained an above average academic record, and contributed significantly to student life and extracurricular activities both at CMCC and in the community.

Governors' Club Corporate Members Awards

Eligibility: Years II, III, IV

Corporate members of the Governors' Club generously sponsor several awards. The Awards Committee selects the recipients based on leadership and service. The corporate members who sponsor these awards are: *Canadian Chiropractor* magazine, First Financial Corporation, North Vancouver Island Chiropractic Society, Professional Health Products, Seroyal Canada Inc., and Sleep Products International Ltd.

Colin A. Greenshields Memorial Award

Eligibility: Years II, III, IV

Dr. Colin Greenshields is honoured through this award for his dedication to chiropractic, his over 40 years of practice, and his many contributions to the growth of chiropractic in Canada via committee work and involvement with CMCC and its Board of Governors. The award is presented to a student in financial need who demonstrates a high degree of commitment to the chiropractic profession and a dedication to others, either through volunteer service or other altruistic endeavours.

Oswald Hall Award

Eligibility: Year III

This award honouring the memory of Dr. Oswald Hall was established by his friends, colleagues and family. Dr. Hall was a prominent sociologist at McGill and the University of Toronto whose focus was on the practical study of professions, primarily the health sciences. He had a long relationship with chiropractic starting in 1971 when he was named Chair of the Task Force on the Education and Practice of Chiropractors in Ontario. Dr. Hall then co-authored the sociological study culminating in the book *Chiropractors: Do They Help?* In 1982 he joined CMCC's Board of Governors, where he offered his considered advice for 17 years. The recipient will have written the best essay (1,000 words) on the topic "The role of the chiropractor as a member of the health care team," have a good academic record, and promote a cooperative and collaborative environment in his/her class.

L.R.W. Hamilton Memorial Scholarships

Eligibility: Year III

These awards are presented in memory of Dr. L.R.W. Hamilton, Class of 1950, by the Chiropractors' Association of Saskatchewan (CAS). Dr. Hamilton devoted his life to the chiropractic profession in Saskatchewan and Canada, serving as President of the CAS 1958-61 and 1963-67 and President of The CCA 1967-69. The Awards Committee selects two students in good academic standing who are from Saskatchewan.

Birdie Hood Hickey Estate Awards

Eligibility: Years III, IV

Dr. Birdie Hood Hickey was a fiercely independent woman who practiced chiropractic for 28 years until she retired in 1975. From a trust fund created by Dr. Hood Hickey, a number of awards are given to students with a good academic record who attend regularly and are in financial need.

A. Earl Homewood Memorial Award

Eligibility: Year II

Friends of the late Dr. Homewood established this award in appreciation of his many years of outstanding service as a teacher, author, business administrator and President of CMCC. The Awards Committee selects a student who has completed a research project either at CMCC or elsewhere. An abstract of the research project must accompany the application.

Vladimir Janda Memorial Scholarship Award

Eligibility: Year IV

This award is presented in memory of Professor Vladimir Janda — a clinician, teacher, and researcher in the field of physical and manual medicine, known as the "father of Czech rehabilitation," and an acknowledged pioneer in his field. The Awards Committee selects a student who has demonstrated exceptional commitment and dedication to clinical competency, has exhibited a keen interest in chiropractic rehabilitation, has successfully prescribed rehab protocols in a clinical setting and has the potential and motivation to continue in rehabilitation teaching or research.

Mark A. King Memorial Award

Eligibility: Years II, III

The family of Dr. Mark King, a successful chiropractor and CMCC graduate who was keenly interested in diagnostic imaging, established a trust fund for this award in his memory.

The award is presented to a student who has shown outstanding proficiency and interest in the field of diagnostic imaging.

Dee Istrati Kristianson Memorial Award

Eligibility: Year II

The family, friends and patients of the late Dr. Dee Istrati Kristianson established this award in her memory. The Awards Committee selects a student on the basis of satisfactory academic record, volunteer service and leadership.

Lydia Kutra Memorial Award

Eligibility: Year II

The family, classmates and friends of Lydia Kutra established this award to honour Lydia's contribution while a student at CMCC. It is presented to a student who participates in extracurricular activities reflecting a strong interest and a profound love for the outdoors.

Jane Mannington Memorial Award

Eligibility: Years II, III, IV

Established by the family and friends of Dr. Jane Mannington in recognition of her many contributions to CMCC, to honour her memory, and to encourage female students to strive for excellence, this award is given to a female student who has maintained a good academic record and given outstanding service to CMCC and the profession.

Thomas Mercer Memorial Bursary

Eligibility: Year III

The late Dr. Mercer, who represented British Columbia on the Board of Governors for several years, established this award, which is presented to a student who is a British Columbia resident and who has not received another major award in the year. The Awards Committee selects the recipient based on the following criteria: academic record, leadership qualities and interest in student affairs.

Raymond Moss Award

Eligibility: Years II, III, IV

The award was established by the family and friends of Mr. Raymond Moss, otherwise known as "Mossy." This award honours his character, particularly his unique ability to work with a wide variety of people, using humour and leadership skills, which were equally effective with all age groups and generated a working environment that created extraordinary results. It is given to a student who demonstrates these qualities and who has contributed in a significant way to the class spirit.

Newfoundland and Labrador Chiropractic Association Award

Eligibility: Years II, III, IV

An award is presented to a student who was a resident of Newfoundland and Labrador at the time of application and acceptance to CMCC. The Awards Committee selects as the recipient a student with good academic standing who has demonstrated outstanding leadership and contribution to the chiropractic profession.

North Vancouver Island Chiropractic Society Bursary

Eligibility: Year IV

The North Vancouver Island Chiropractic Society established this award to assist a student who is a resident of British Columbia, preferably North Vancouver Island. The selection of the recipient is based on academic standing, student involvement and financial need. Official transcripts and applications will be forwarded to the North Vancouver Island Chiropractic Society.

Nova Scotia Chiropractic Association Scholarship

Eligibility: Years II, III, IV

An award is presented to a student who has been a non scholastic resident of Nova Scotia (i.e., not a resident for the sole purpose of education), having lived in that province full time for four years and who applied to CMCC through Nova Scotia. The recipient must have attained the highest academic standing of all Nova Scotia residents in his/her previous year with an average of at least 75%.

Ontario Chiropractic Association Award

Eligibility: Years II, III, IV

An award is presented to a student from Ontario. The Awards Committee selects as the recipient a student with a good academic record who has demonstrated outstanding leadership and service to CMCC and the student body.

The Orthotic Group Excellence in Biomechanics Scholarship

Eligibility: Year III

The Orthotic Group offers five scholarships annually to the top five students in the Year II Clinical Biomechanics class.

Scott Poulter Memorial Award

Eligibility: Year II

Established by CMCC faculty, and supported by family, friends and classmates of Scott Poulter, Class of 2015, this award honours the memory of Scott's engaging personality and generous smile, both of which endeared him to everyone he met. It is presented to a student in Year II who is selected by his/her classmates for contributing to the betterment of their class spirit in Year I.

Edgar Reinhart Philosophy Award

Eligibility: Year IV

A member of the Class of 1950, Dr. Edgar Reinhart was known across North America as an excellent motivational speaker. The Chiropractic Principles and Practice faculty select a senior student for this award who, as Dr. Reinhart did, draws inspiration from chiropractic philosophy, the "Vis Medicatrix Naturae," and shows promise in applying these principles in practice.

Donna Jean Richter Memorial Award

Eligibility: Year II

This award was established by the family and friends of Donna Jean Richter, wife of CMCC alumnus Dr. Marty Richter. The Year II class selects a student who displays Donna's compassion, generosity, zest for life and spirit of always helping others.

Rogers Riedel Memorial Award

Eligibility: Years III, IV

Dr. Riedel, a graduate of the Class of 1949, the first graduating class of CMCC, demonstrated a keen interest in policy development for the advancement of regulated health professionals. The Awards Committee selects a student with a minimum grade of 80%, who continues the tradition of advancing the chiropractic profession through participation on the Interprofessional Education Council.

Fred Soloduka Memorial Award

Eligibility: Year III

His family and friends established this award in memory of Dr. Fred Soloduka, Class of 1958, a CMCC Board Member 1969-1973, and long time supporter of CMCC. He maintained a keen interest in nutrition during his studies and in his practice. The recipient is the student who obtains the highest grade in the Year II Nutrition course.

Student Bursary Fund

Eligibility: Years II, III, IV

The Student Bursary Fund was established by CMCC in 1992 to recognise contributions of time and effort by students to support recognised CMCC activities. CMCC allocates a portion of receipts from specified fundraising events to the Fund. Qualified applicants receive a credit that is applied to tuition fees for the subsequent term.

Student Canadian Chiropractic Association Michael Brickman Award

Eligibility: Year II

The SCCA established this award in memory of Dr. Michael Brickman, who contributed significantly to the chiropractic profession and had a keen interest in student life at CMCC. The recipient is chosen by the class and the award is presented to a student who contributes most to a positive classroom environment and is involved in activities that contribute to the betterment of the chiropractic profession.

Student Canadian Chiropractic Association Citizenship Award

Eligibility: Years III, IV

This award was established in 2002 through a generous donation from the Student Canadian Chiropractic Association. The recipient has made a significant contribution to student life in an unassuming and altruistic manner.

Students' Council Award

Eligibility: Years II, III, IV

This award is presented to a student who has contributed to student life at CMCC by developing a new student club through his/her initiative.

Students' Council Dedication Award

Eligibility: Years III, IV

Established by CMCC's Students' Council, this award is presented to students who have been involved in various student activities, and have shown a consistent desire to improve student life at CMCC. The recipients are selected by the Students' Council Executive.

Students' Council Leadership Award

Eligibility: Years II, III, IV

This award recognises students who have sought to enhance the collegial atmosphere of their classes by exemplifying a congenial attitude and demonstrating peer leadership in order to benefit the entire class. The Awards Committee selects two students from each of the eligible classes as recipients.

Don Augustin Tanco Memorial Award

Eligibility: Year I

The Don Augustin Tanco Memorial Award was established by Dr. John and Mrs. Christine Hui in memory of her father and is given to a student who has demonstrated excellence in sports, either through participation or coaching, and who has submitted a 250 word essay entitled "The Role of Chiropractic in Sports."

Nicola Tantalo Memorial Award

Eligibility: Years I, II, III, IV

The family of Mr. Nicola Tantalo has donated this award in memory of Mr. Tantalo's active involvement in his community of Villavallelonga, Italy. It is given to a student who has contributed significantly to his/her local community or the CMCC community through volunteer services while maintaining a good academic record.

John M. Wallace Memorial Award

Eligibility: Years II, III, IV

This award is given in memory of the late Mr. John M. Wallace of Oakville, Ontario, who was a generous benefactor to CMCC during its formative years. This award is presented to the student in Years II, III, and IV with the second highest academic standing in their class.

Kenneth S. Wood Memorial Award

Eligibility: Year IV

The family, friends, patients and colleagues of Dr. Wood present this award to a student who has achieved an above average academic standing and submitted a 1,000 to 1,500 word essay on chiropractic philosophy entitled "Health Care in Canada: The Role of Chiropractic."

Gilbert H. Young Memorial Scholarships

Eligibility: Years II, III, IV

Dr. Young was an outstanding leader in the profession for many years in his native province of British Columbia and across Canada. He served on the CMCC Board of Governors for a number of years, including a term as Chair. A trust fund was established from his estate for an award to be presented to students in Years II, III and IV with the highest academic standing.

Graduation Citizenship Awards**David W. Artis Memorial Graduation Award**

This award in honour of Dr. David Artis is open to all graduating students who submit an autobiographical sketch and an essay (250 to 700 words) on the topic "What it means to be a principled chiropractor in the historical context and in present day practice."

Michael Brickman Memorial Graduation Award

This award was established by the Ontario Chiropractic Association to recognise Dr. Michael Brickman's dedication to students. The award is presented annually to the graduating student identified by his/her peers as best exemplifying the traits of passion, dedication and enthusiasm for the chiropractic profession as well as outstanding proficiency in adjusting techniques. It includes a one year membership in the Ontario Chiropractic Association.

Douglas M. Brown Graduation Award

Dr. Douglas Brown graduated from CMCC in 1955 and has provided distinguished service to CMCC and the chiropractic profession ever since as a member, and then as Chair of the CMCC Board of Governors. He is a long time and dedicated supporter and volunteer for all of CMCC's fundraising activities; President of the Canadian Chiropractic Historical Association; and the most published historical researcher in Canada. This award, established by CMCC in honour of Dr. Brown, is presented to a graduating student who maintains a CGPA of 3.0 while demonstrating exceptional dedication and exemplary contributions to CMCC and the chiropractic profession.

Class of 2000 Scholarship

The Grad Fund of the Class of 2000 established this scholarship to recognise the perseverance of a graduating student who, over the course of his/her education at CMCC, has overcome exceptional personal adversity, and continued to be an active member of his/her class.

Class of 2003 Pioneer Award

The Class of 2003, remembered for being the first graduating class to complete the integrated curriculum, established this award at the time of their graduation. The award is given to a student who has taken a leadership role in creating a new initiative that has benefited or will benefit the students at CMCC. The ideal candidate is a person who leads the way for others in a selfless manner and may be viewed as the "unsung hero" of the class.

The College of Chiropractic Sciences (Canada) External Clinic Award

This award is given to the graduating student who, during his/her participation in an external clinic, has demonstrated an outstanding commitment to the clinic, good clinical competency, leadership skills, and has been a good team player and excellent ambassador for CMCC.

Andrea Fefferman Memorial Award

This memorial to Dr. Andrea Fefferman was created by family, friends, colleagues, and patients who were touched by her warmth, generosity, and nurturing spirit. Dr. Fefferman graduated from CMCC in 1987 and practiced in Ottawa for 25 years. Her dedication to others helped make her a profoundly effective healer, a loving and devoted mother, an exemplary role model, and above all a true and loyal friend. She is perhaps remembered best by her patients, family and friends for her smile, which could light up a life. This award is presented to a student who best demonstrates, by way of an autobiographical essay (approx. 500 words), how the applicant has aspired to help others reach their goals and potential.

Foot Levelers, Inc. Scholarships

Foot Levelers, Inc. provides scholarships to graduating students who have a minimum CGPA of 3.00 and who have completed a case study on the topic of the enhanced treatment results from the use of Foot Levelers, Inc. orthotics for patients with a spinal condition, lower extremity condition or for rehabilitation treatment.

Stéphane Julien Memorial Award

Grad Fund '91 established a trust fund in memory of classmate Dr. Stéphane Julien. An award is presented to the graduating student who, during the course of study at CMCC, has demonstrated great dedication to helping other students in academics or technique.

Robert Kilgannon Memorial Award

This award was established through donations from the Students' Council, faculty, and staff of CMCC in memory of Dr. Robert Kilgannon. The recipient is in good academic standing and exhibits the following qualities: good rapport with patients, including a capacity to instil confidence, and a commitment to education.

Herbert K. Lee Memorial Award

In recognition of the long standing devotion of Dr. Herbert Lee as evidenced by his academic, clinical, voluntary and altruistic contributions to CMCC for over 55 years, this award is given to a graduating student who has consistently demonstrated dedication to the CMCC community through involvement in a variety of endeavours.

Jane Mannington Award

Established by Dorothy Mannington, this award honours the memory of Dr. Jane Mannington, a valued faculty member whose enthusiasm and encouragement helped female students strive for excellence. The recipient is a female graduating student who has maintained a good academic standing and who has given outstanding service to CMCC and the profession.

James K. Morrison Award

In recognition of the significant contribution made by Mr. Jim Morrison to the educational experience of students at CMCC during his 20 years as CMCC's Registrar, the Awards Committee selects a student who has made a significant contribution to student life in an unassuming, altruistic and diligent manner.

Ontario Chiropractic Association Award

An award including a one year membership in the Ontario Chiropractic Association is presented to an Ontario graduating student. The Awards Committee selects the recipient based on the following criteria: successful completion of the program with a good academic record, as well as demonstration of outstanding leadership and service to CMCC and the student body.

David Percival Memorial Award

Members of the Class of '79 present an award in memory of their highly respected classmate to a graduate with good academic standing who participated in student activities and shows organizational and leadership qualities.

Marilyn Phillips Award

Made possible through generous donations by administration, staff and faculty, this award is given in recognition of the valuable services rendered by the support staff of CMCC, as exemplified by Marilyn Phillips, a former employee in the Accounting Department. The Awards Committee selects as the recipient a student who has shown leadership and service to the student body and CMCC.

Physiomed Graduation Citizenship Award

Physiomed was founded in 1994 by Dr. Scott Wilson, the year he graduated from CMCC. It has grown to over 30 clinics with health care professionals from over a dozen disciplines. Physiomed is committed to improving the health and wellness of Canadians and is pleased to provide this award. The recipient is chosen based on the submission of an essay (minimum 1,500 words) on the topic "My personal experience as a volunteer in the local community."

Donald C. Sutherland Students' Council Award

The Students' Council grants this award in appreciation of Dr. Sutherland's dedication and contribution to the advancement of CMCC during his term as President. The Awards Committee selects as the recipient a student who has maintained a high academic average during the four years, while being active in student affairs and demonstrating leadership and initiative.

James L. Watkins Memorial Award

Dr. Watkins served the chiropractic profession faithfully and honourably for more than 33 years. Following a successful career as a caring practitioner, Dr. Watkins had the distinction of having held office as Executive Director for The Canadian Chiropractic Association (CCA) and the Canadian Chiropractic Protective Association (CCPA). The CCA and CCPA have created this award to honour his distinguished service to the profession. Candidates will be graduates with strong academic standing who have demonstrated an interest in the Students' Council and/or Student Canadian Chiropractic Association. The recipient receives complimentary membership in both The CCA and the CCPA for the first year of his/her practice.

York Peel Chiropractic Award

This award is presented to a graduate who plans to establish a practice in the Toronto/York Peel region. The Awards Committee selects the recipient based on the following criteria: a good academic record, an altruistic attitude, good rapport with patients, and a record of volunteer service.

Graduation Academic Awards

Board of Governors' Chair's Award

The Board of Governors' Chair's Award is presented to a graduating student who has represented the student body in discussions and dealings with the administration and the Board of Governors while maintaining a satisfactory academic record.

Donald Bramham Memorial Award

Dr. Donald Bramham of Regina was a long time Board Member of the Canadian Chiropractic Protective Association (CCPA) and was instrumental in its creation. The CCPA has created this award to honour his prominent service to the profession. The recipient has achieved the second highest academic standing in Year IV and receives a complementary membership in the CCPA for the first year of his/her practice.

CCRC Clinical Radiological Proficiency Award

The Chiropractic College of Radiologists (Canada) gives this award to recognise a student who has demonstrated a thorough understanding of clinical and radiological entities, as demonstrated by having the greatest number of correct submissions in the X-ray Case of the Week Contest.

CMCC President's Award

The President's Award is presented to a graduating student who, in addition to having obtained high academic and clinical standing, has made an outstanding contribution to CMCC life over the four years of study.

Collaborative Patient Care Award

Brian Ferguson, MD and Celina White, MD, were so impressed with the education their son Brad Ferguson, DC received at CMCC, as well as with the numerous professional interactions they have had with other CMCC graduates that they have funded this award to recognise excellence in patient diagnosis, care and education. This award is presented to two students from the graduating class who demonstrate high academic standing, practice patient centred and collaborative care, and engage in their community through participation in outreach activities.

Istrati Family Memorial Award

This scholarship has been established in memory of Konrad C. and Aurelia M. Istrati and their daughter, Dr. Delilah J. Istrati. It is awarded annually to two graduating students from Saskatchewan who attain the first and second highest cumulative grade point average.

Douglas V. Hoskins and Samuel F. Sommacal Clinic Proficiency Award

Dr. Hoskins was a founding member and Secretary of the Board of Governors of CMCC. Dr. Sommacal was a founding member and Chair of the Board of Governors. In appreciation of their contributions, this award is presented by CMCC to an intern from the Campus Clinic who has shown outstanding proficiency in Clinical Education.

Mark A. King Memorial Award

The family of Dr. Mark King, a successful chiropractor and CMCC graduate who was keenly interested in diagnostic imaging, established a trust fund for this award in his memory. It is presented to a graduating student who has shown outstanding proficiency and interest in the field of diagnostic imaging.

Ronald King Award

The Class of '83 established an award in appreciation of the leadership and inspiration imparted by Dr. Ron King, a former faculty member and Clinic Director at CMCC. It is given on the basis of excellence in clinical chiropractic diagnostic skills.

Judy Ladell Memorial Award

The valedictorian is awarded this scholarship, established by the family and friends of the late Judy Ladell.

Scott Wilson Graduation Award

This award is presented by Dr. Scott Wilson, Class of 1994, in recognition of his commitment to improving the health and wellness of Canadians through a successful network of over 30 clinics with health care professionals from over a dozen disciplines. It is presented to a student who has obtained a high overall academic standing during the four year program with excellence in the Health Care Management course.

The Royal College of Chiropractic Sports Sciences (Canada) Award

The Royal College of Chiropractic Sports Sciences (Canada) Award goes to a CMCC graduating student who has been accepted or is seeking acceptance into either the Sports Sciences graduate program at CMCC or a university based sports sciences residency program, who has demonstrated significant contribution to the sporting community and has attained a high academic standing.

Walter Sturdy Memorial Scholarship

The Canadian Chiropractic Association presents this scholarship in memory of Dr. Sturdy, its first President and one of the founding members of CMCC. The award is given to the student who has achieved the highest overall academic standing during the four year program.

Vern Welsh Memorial Award

The late Dr. Vern Welsh was an active member of the Board of Directors of the Ontario Chiropractic Association (OCA) and a loyal supporter of CMCC. The award includes a one year membership in the OCA. The recipient must be an Ontario resident who has achieved academic excellence in the subject area of diagnostic imaging.

Gilbert H. Young Memorial Award

Dr. Gilbert H. Young was an outstanding leader of the profession both in his native British Columbia and across Canada. He served on the CMCC Board of Governors, including a two year term as Chair. The award, from a trust fund established from his estate, is given to the student with the highest academic standing in Year IV.

Additional Awards Not Exclusive to CMCC Students

Alberta College and Association of Chiropractors Scholarship

This scholarship is awarded to a student who has completed Year III in a CCE accredited chiropractic program, who qualifies as an Alberta resident, and who demonstrates a high rating in academic and clinical competencies, and service to his/her chiropractic institution and the community. For further details, please visit www.albertachiro.com under the "For Students" tab.

Association for the History of Chiropractic Medals

The William S. Rehm Medal and the Gibbons-Wardwell Medal are given for an outstanding unpublished essay by a single author on any topic on the history of chiropractic. The essay (maximum 10,000 words, including endnotes) must be the result of original research or show an unusual appreciation and understanding of problems in the history of chiropractic. In particular, the committee judges essays on the quality of writing, appropriate use of sources, and ability to address themes of historical significance. For further details, please visit the Awards and Honours section of www.historyofchiropractic.org.

Harold Beasley Award for Excellence in Jurisprudence

This award was established in 1995 to honour the memory of Dr. Harold Beasley, a former Chair of the Ontario Board of Directors of Chiropractic (BDC), now the College of Chiropractors of Ontario (CCO). As Chair of the BDC, Dr. Beasley worked tirelessly to ensure that chiropractic was given fair recognition under legislation. This annual award is presented for proficiency in Ontario jurisprudence to a student at an accredited chiropractic educational institution in North America who intends to practice in Ontario. The winner shall have his/her fees for application and registration in Ontario waived for the first year. The recipient will be determined by the CCO's Awards Committee. Please see Student Services for a list of essay topics and due date.

The Chiropractic Education Foundation of New York (CEFNY), Inc.

In order to qualify for this award, applicants must be permanent residents of New York State preceding enrolment in a chiropractic program recognised for licensure in New York State, have plans to practice there, and have completed one year of chiropractic education by the time the award is given. Scholarships are paid directly to the program in the recipient's name and are announced at the CEFNY annual meeting in May of each year.

Emma Goodrich Estate Scholarships

Eligibility: Years II, III, IV

BC Application Required

A number of awards from this fund are given to Year II, III or IV students from British Columbia with good academic records. Official transcripts and a completed BC award application must be submitted to Student Services.

Faculty Awards

A. E. Homewood Memorial Professorship

Dr. A. Earl Homewood (1915-1989) was a founding faculty member of the Canadian Memorial Chiropractic College and served the institution in many capacities, including as President, Chairman of the Board, Business Administrator, Dean, Professor, Professor Emeritus and President Emeritus. He taught in many academic areas including technique, anatomy and jurisprudence. During his career he also held appointments at Lincoln Chiropractic College in Indianapolis and Los Angeles College of Chiropractic. He was a scholar, an administrator and a practitioner who dedicated his life to the profession that he loved and the people it served.

The A.E. Homewood Memorial Professorship is presented for one year, with the possibility of a one year renewal, to a member of the academic community who has shown, over a number of years, a dedication to the principles and philosophy of health care through chiropractic as professed by Dr. Homewood. The recipient shall have demonstrated through scholarship and/or service to the profession a level of dedication and excellence that reflects the high standards established by Dr. Homewood and the pioneering faculty of CMCC. The recipient receives a stipend for the term of the professorship, and is expected to make a presentation to the faculty and students of CMCC at some time during the tenure of the professorship.

The Dean's Award for Excellence in Teaching and Learning

This award is given to a faculty member who successfully completes TEP101, participates fully and develops a teaching portfolio that demonstrates:

- passion for teaching as a profession
- application of the principles of adult education in their teaching and learning
- commitment to classroom innovation

This award provides funding for the faculty member to attend a conference, workshop or course related to his/her professional development as an educator at CMCC.

William Peek Memorial Faculty Award

This award is presented in memory of Dr. William Peek, who was a faculty member in the Division of Biological Sciences at CMCC. It is presented to a member of the undergraduate faculty for excellence in teaching, upon recommendation from students and peers.

Undergraduate Degree Program Course Requirements

Year I		Hours
AN 1102	Human Histology	76
AN 1103	Basic Body Mechanics and Principles of Rehabilitation	96
AN 1106	Human Gross Anatomy: Back and Lower Limb	75
AN 1107	Human Gross Anatomy: Head, Neck and Upper Limb	87
CD 1201	Introductory Diagnosis for Chiropractic Practice I	24
CD 1302	Orthopaedics for Chiropractic Practice I	48
CE 1101	Chiropractic Clinical Practice I	74
CP 1101	Chiropractic Practice: Principles and Professional Foundations	66
CT 1102	Chiropractic Skills I	106
DI 1101	Diagnostic Imaging Interpretation for Chiropractic Practice I	59
DI 1102	Fundamentals of Radiography	25
PH 1101	Biochemistry I, Intermediary Metabolism	107
RM 1301	Applied Research and Biometrics	26
Course Hours		869
Grand Rounds		12
Total Hours		881

Year II		Hours
AN 2102	Human Neuroanatomy	50
AN 2106	Human Gross Anatomy: Thorax, Abdomen and Pelvis	41
AN 2203	Clinical Biomechanics	40
CD 2201	Introductory Diagnosis for Chiropractic Practice II	43
CD 2302	Orthopaedics for Chiropractic Practice II	34
CE 2202	Chiropractic Clinical Practice II	75
CP 2410	Chiropractic Practice: Clinical Theories, Ideologies and Therapies	60
CT 2204	Chiropractic Skills II	120
CT 2205	Rehabilitation in Chiropractic Practice: A Regional Approach	25
DI 2201	Diagnostic Imaging Interpretation for Chiropractic Practice II	48
PA 2203	Patho-Immunology	54
PA 2205	Microbiology and Infectious Diseases	85
PA 2306	Toxicopharmacology	30
PH 2204	Systems Physiology	74
PH 2205	Neuroscience for Chiropractic Practice	70
PH 2206	Biochemistry II, Health and Wellness	62
RM 2301	Investigative Project – Topic Development	10
Course Hours		921
Grand Rounds		12
Total Hours		933

Year III		Hours
CD 3303	Neurodiagnosis for Chiropractic Practice	44
CD 3305	Diagnosis and Symptomatology for Chiropractic Practice	92
CD 3406	Clinical Psychology	38
CD 3407	Emergency Care for Chiropractic Practice	26
CD 3408	Chiropractic Practice: Special Populations: Paediatric Patient	22
CD 3409	Chiropractic Practice: Special Populations: Female Patient	29
CD 3410	Chiropractic Practice: Special Populations: Older Patient	17
CE 3304	Integrated Chiropractic Practice	198
CP 3303	Chiropractic Professional Ethics	30
CP 3304	Chiropractic Practice: Business and Law	28
CT 3306	Chiropractic Skills III	108
CT 3307	Auxiliary Chiropractic Therapy	14
DI 3203	Diagnostic Imaging Interpretation for Chiropractic Practice III	40
DI 3301	Radiological Technology	45
DI 3302	Diagnostic Imaging Interpretation for Chiropractic Practice IV	24
PA 3201	Systems Pathology	57
PA 3305	Clinical Laboratory Diagnosis	45
PH 3407	Clinical Nutrition for Chiropractic Practice	15
RM 3301	Investigative Project – Protocol Development	35
Electives		
RMO 3302	Original Research Project Development and Completion	
RMO 3303	Student Research Apprenticeship	
Total Hours		907

Year IV		Hours
CE 4405	Chiropractic Clinical Practice: Internship	1300
CE 4406	Health Care Management	51
CE 4407	Clinical Laboratory Clerkship	20
CE 4408	Radiology Laboratory Clerkship	40
CE 4409	Clinical X-ray Interpretation and Reporting	35
DI 4401	Advanced Diagnostic Imaging	30
PA 4407	Public Health	39
RM 4301	Investigative Project Completion and Report	35
Total Hours		1550
Total Program Hours		4271

Academic Departments and Course Descriptions

Department of Anatomy

Chair

M. Kumka, MD, PhD

The Department of Anatomy provides a comprehensive curriculum that explores the functional relationships of the gross, histological, and developmentally related structures of the human body emphasizing the neuromuscular and skeletal systems. The histological and developmental structures of the human body are presented with a focus on the musculoskeletal systems including the spine, peripheral and central nervous, respiratory, cardiovascular, digestive, urinary, and reproductive systems. The biomechanics courses in the department stress functional anatomy. Utilizing a foundation from gross and microscopic anatomy, these courses describe tissue and injury mechanics, as well as the normal motion that occurs at each joint. All of the aforementioned content is used to study the movements in functional activities such as gait, cycling, kicking and throwing so that the student is able to recognise abnormal movements that will lead to pathology. The material covered forms a strong foundation for the clinical courses in the program.

AN 1102 Human Histology

Credits: 4.8

Coordinator: G. Sovak

Total hours: 48 Lecture, 28 Lab

The human microscopic anatomy of cells and tissues are introduced with emphasis on connective, muscle and nerve tissues and their relationship with the human body function in health and disease. The histological and developmental structure of the human body is presented with a focus on the respiratory, cardiovascular, digestive, urinary and reproductive systems. Particular emphasis is placed on the functional relationships between structures, along with the clinical significance of these structures to a practicing chiropractor.

AN 1103 Basic Body Mechanics and Principles of Rehabilitation

Credits: 7.4

Coordinator: S. Wang

Total hours: 96 Lecture

Basic biomechanical principles and properties of the spine; the mechanical concepts of basic body mechanics; and advanced topics involving moment calculation are presented, with emphasis on their application to spinal manipulative therapy. The biomechanics of the joints

of the upper limb, and cervical and thoracic spine are examined to explain how pathologies develop. Due to the preponderance of low back pain, detailed attention is given to the functional anatomy and pathomechanics of the lumbar spine and the concept of lumbar spine stability. Treatment, rehabilitative exercise and prevention strategies are discussed.

AN 1106 Human Gross Anatomy: Back and Lower Limb

Credits: 4.3

Coordinator: M. Kumka

Total hours: 37 Lecture, 38 Lab

Gross human anatomy is explored, with the focus on the back and lower limb regions. Particular emphasis is placed on the relationships between the structure and function of the neuromuscular and skeletal systems including the spine, from infancy through childhood, puberty, adolescence, adulthood and old age, and the clinical significance of these structures to the practicing chiropractor.

AN 1107 Human Gross Anatomy: Head, Neck and Upper Limb

Credits: 4.8

Coordinator: M. Kumka

Total hours: 37 Lecture, 50 Lab

Gross human anatomy is explored, with the focus on the head, neck and upper limb regions. Particular emphasis is placed on the relationships between the structure and function of the neuromuscular and skeletal systems, from infancy through childhood, puberty, adolescence, adulthood and old age, and the clinical significance of these structures to the practicing chiropractor.

AN 2102 Human Neuroanatomy

Credits: 3.3

Coordinator: C. Lucaciu

Total hours: 36 Lecture, 14 Lab

The developmental, gross and functional anatomy of the human nervous system is presented with a focus on the brain, brain stem and spinal cord. Particular emphasis is placed on the functional relationships between structures along with the clinical significance of these structures to a practicing chiropractor.

AN 2106 Human Gross Anatomy: Thorax, Abdomen and Pelvis

Credits: 2.4

Coordinator: M. Kumka

Total hours: 21 Lecture, 20 Lab

Gross anatomy is explored with a focus on the thorax, abdomen and pelvis. A regional approach is used with emphasis on the functional relationships between structures, in particular the musculoskeletal system and its joints, along with the clinical significance of these structures to a practicing chiropractor.

AN 2203 Clinical Biomechanics

Credits: 3.1

Coordinator: K. Ross

Total hours: 40 Lecture

Link-segment analysis, with sample calculations, is explained in preparation for discussion of normal and pathological mechanics of the joints of the lower extremities. The biomechanics of cycling, gait, footwear, foot orthotics, carrying a backpack, and the functional activities of throwing and kicking are presented with emphasis on incorrect technique and its relationship to pathological conditions.

Department of Clinical Diagnosis**Chair**

V. Ricciardi, DC

The Department of Clinical Diagnosis demonstrates the importance of clinical diagnosis to the chiropractor as a primary contact health care professional. The importance of the chiropractor's ability to analyze clinical data critically, to develop an accurate diagnosis, and to collaborate with and refer to other health care professionals are emphasized.

CD 1201 Introductory Diagnosis for Chiropractic Practice I

Credits: 1.3

Coordinator: V. Ricciardi

Total hours: 10 Lecture, 14 Lab

History taking and physical examination techniques for the vital signs, head and neck, sinuses, nose and mouth, ear and hearing, eye and vision, skin, hair and nails are introduced. The general principles of clinical diagnosis are explored.

CD 1302 Orthopaedics for Chiropractic Practice I

Credits: 3.1

Coordinator: R. Guerriero

Total Hours: 33 Lecture, 15 Lab

Clinical diagnosis of disorders of the musculoskeletal system, focusing on the cervical, thoracic and lumbar spine and pelvis, including their effects on the nervous system is explored. Emphasis is placed on the importance of history taking and physical examination of the spine (including observation, ranges of motion, orthopaedic tests, neurological examination, soft tissue palpation, joint and bony palpation). Informed consent, contraindications to manipulation and the importance of back education are discussed.

CD 2201 Introductory Diagnosis for Chiropractic Practice II

Credits: 2.3

Coordinator: V. Ricciardi

Total hours: 18 Lecture, 25 Lab

History taking skills are developed and physical examination techniques of the neurological, cardiovascular, gastrointestinal, respiratory and genitourinary systems are explored.

CD 2302 Orthopaedics for Chiropractic Practice II

Credits: 2.0

Coordinator: I. Simonsen

Total Hours: 19 Lecture, 15 Lab

The relevant clinical anatomy, pathology, lesions and pathogenesis, diagnostic categories, current diagnostic tests and methods, and treatment strategies for the upper and lower limb and temporo-mandibular joint are reviewed. The response to injury of normal musculoskeletal tissues in the extremities is discussed. Differential diagnosis and management of musculoskeletal pain syndromes, and an understanding of the role of chiropractic diagnostics and therapeutics in a variety of musculoskeletal disorders are developed.

CD 3303 Neurodiagnosis for Chiropractic Practice

Credits: 3.4

Coordinator: S. Zyllich

Total hours: 44 Lecture

Common neurological disorders are presented with particular emphasis on conditions frequently seen by chiropractors. The skills required to apply the findings of a neurological examination and correlate clinical neurological findings with other diagnostic data are developed. Emphasis is placed on clinical pattern recognition, aetiology, signs, symptoms and differential diagnosis.

CD 3305 Diagnosis and Symptomatology for Chiropractic Practice

Credits: 6.3

Coordinator: V. Ricciardi

Total hours: 72 Lecture, 20 Lab

An overview of advanced clinical disorders of the body systems is presented. Emphasis is placed on the aetiology, signs and symptoms, differential diagnosis and treatment of disorders of the cardiovascular, genitourinary, respiratory, gastrointestinal, endocrine, skin, ears, eyes, nose and throat, and immune systems that may confront the chiropractic practitioner.

CD 3406 Clinical Psychology

Credits: 2.8

Coordinator: J. Reitav

Total hours: 34 Lecture, 04 Lab

The background necessary to identify and respond to psychological problems effectively is provided. The full spectrum of normal and abnormal behaviours is discussed with a specific focus on the syndromes most commonly seen in chiropractic practice. The use of clinical observation, systematic inquiry and evaluation to develop a plan of management for these conditions within the context of a chiropractic practice is emphasized.

CD 3407 Emergency Care for Chiropractic Practice

Credits: 2.0

Coordinator: A. Miners

Total hours: 26 Lecture

Prerequisite: A current certification in basic first aid and CPR with AED.

The first response diagnosis of emergency situations such as head and spinal injuries, stroke, shock, cardiac arrest, respiratory distress, burns, heat and cold injuries, soft tissue and bone trauma, diabetic emergencies, poisoning and emergency child birth are presented. Emphasis is placed on the assessment of emergency situations, the triaging of injuries and the provision of appropriate first aid in an effort to preserve life, prevent further injury and promote recovery.

CD 3408 Chiropractic Practice: Special Populations: Paediatric Patient

Credits: 1.7

Coordinator: S. Zyllich

Total hours: 22 Lecture

The diagnosis and management of selected conditions affecting infants and preschool children are presented, including disorders of birth, child development, the neuromusculoskeletal system, orthopaedics, infectious diseases and common malignancies. Distinguishing those conditions that require referral and those that are amenable to chiropractic care is emphasized. Special emphasis is placed on prevention and correction of structural problems.

CD 3409 Chiropractic Practice: Special Populations: Female Patient

Credits: 2.1

Coordinator: A. Azad

Total hours: 21 Lecture, 04 Lab, 04 TBL*

Conditions of the female reproductive system and standard diagnostic gynaecologic procedures are discussed. Emphasis is placed on the differential diagnosis of functional and organic causes of gynaecologic signs and symptoms, and on the treatment of those gynaecological conditions amenable to chiropractic care. Prenatal care, childbirth and postpartum care are discussed with an emphasis on chiropractic management.

CD 3410 Chiropractic Practice: Special Populations: Older Patient

Credits: 1.3

Coordinator: B. Gleberzon

Total hours: 14 Lecture, 03 TBL*

Conditions affecting older persons are introduced including the "I"s of geriatric care (intellectual impairment, immobility, instability, iatrogenic drug reactions, incontinence and social isolation). History taking, diagnostic procedures and therapeutic interventions for chiropractic care of the older patient are presented. The importance of an interdisciplinary approach and healthful lifestyle strategies that culminate in healthy aging are emphasized.

Division of Clinical Education

Associate Dean, Clinics

A. Tibbles, BSc (Hons), DC, FCCS(C)

Directors, Clinical Education and Patient Care

P. Decina, DC, FCCS(C)

TBA

The Division of Clinical Education provides for the application of academic theory and clinical skills to patient care.

CE 1101 Chiropractic Clinical Practice I

Credits: 2.9

Coordinator: C. Jacobs

Total hours: 22 Small Group, 01 Lecture, 36 SDL†, 12 Observation, 02 Manikin Simulation Lab, 01 History, Physical, and Diagnosis Assessment

A comprehensive introduction to the structure and function of CMCC's clinical teaching environment, instruction in the theory and application of evidence informed clinical practice, exposure to the skills required to effectively retrieve, critically appraise, and apply current health care information and literature are provided. Integration of skills and knowledge learned in other areas of the program, including interviewing, informed consent, clinical examination skills, and the reinforcement of clinical skills and knowledge acquired in other areas are facilitated.

CE 2202 Chiropractic Clinical Practice II

Credits: 2.9

Coordinator: C. Jacobs

Total hours: 22 Small Group, 38 SDL†, 12 Observation, 02 Manikin Simulation Lab, 01 History, Physical, and Diagnosis Assessment

Current clinical and practical issues in chiropractic specifically, and health care in general are explored. The opportunity to build upon the knowledge gained in other areas of the academic program and to develop an enhanced appreciation for the application of evidence informed practice management principles is provided.

CE 3304 Integrated Chiropractic Practice

Credits: 8.2

Coordinator: B. Stainsby

Total hours: 16 Lecture, 84 Lab, 84 SDL†, 12 Observation, 02 Manikin Simulation Lab

Utilizing a case based approach, learning from across the program is integrated as clinical reasoning skills are applied to reach a diagnosis and formulate a plan of management specific to the patient's presentation. Evidence based care within a biopsychosocial model is emphasized. Learning is optimized by guest lecturers and expert panel presentations.

CE 4405 Chiropractic Clinical Practice: Internship

Credits: 50

Coordinator: A. Tibbles

Total hours: 1,000 Clinic, 300 SDL†

The clinical internship year provides interns with an opportunity to apply their pre-clinical learning and patient care skills in a supervised and supportive environment. The clinical application of learned knowledge and skills for patient assessment, care and communication is the focus of this course. The internship provides the experience necessary to succeed as practicing chiropractors in an evolving health care environment.

CE 4406 Health Care Management

Credits: 2.8

Coordinator: J. Moss

Total hours: 21 Lecture, 30 SDL†

Realistic personal and professional goals are encouraged through discussion of different clinic practice business arrangements, the choice of a location, the establishment of a brand for the clinic/practice, and the development of a marketing strategy and business plan. Basic accounting procedures, financial strategies, office policy and procedures and human resource management are provided toward the successful management of the business aspects of private practice.

CE 4407 Clinical Laboratory Clerkship

Credit: 0.8

Coordinator: A. Tibbles

Total hours: 20 Lab

Laboratory tests and a review of the most common haematological, immunological and biochemical disorders encountered in a chiropractic practice are provided. Laboratory reports are examined and findings are related to clinical manifestations.

CE 4408 Radiology Laboratory Clerkship

Credits: 1.5

Coordinator: A. Tibbles

Total hours: 35 Lab, 05 SDL†

Through radiographic examination of patients, the basics of proper radiographic procedure and technique, film processing and quality assurance are presented.

CE 4409 Clinical X-ray Interpretation and Reporting

Credits: 1.3

Coordinator: W. Hsu

Total hours: 20 Lab, 15 SDL†

Skill at producing accurate, concise and effective radiographic reports that meet the expected standards for chiropractic practice are developed through the generation of reports on a large variety of cases. Knowledge gained throughout the radiology and clinical courses in the curriculum is integrated and utilized.

Department of Chiropractic Principles and Practice

Chair

K. Hammerich, DC, MHS

The Department of Chiropractic Principles and Practice provides curriculum on the history of manipulation, contemporary knowledge and research in the area of chiropractic manipulative therapy, as well as the sociology of chiropractic, the legal and ethical aspects of contemporary chiropractic practice, and practice development and management. The chiropractor's unique approach to health care within the modern health care team is stressed. The importance of ethical behaviour and professionalism are emphasized.

CP 1101 Chiropractic Practice: Principles and Professional Foundations

Credits: 4.6

Coordinator: S. Kinsinger

Total hours: 54 Lecture, 12 Small Group

The historical and foundational approach to health that is unique to chiropractic is presented. Issues pertaining to the philosophy, art and science of chiropractic, professionalism and the unique ethical responsibilities of the health professional student and practitioner are explored.

CP 2410 Chiropractic Practice: Clinical Theories, Ideologies and Therapies

Credits: 4.4

Coordinator: B. Gleberzon

Total hours: 54 Lecture, 06 Small Group

A variety of chiropractic techniques are presented from the perspective of the historical development, the philosophy of the techniques, their diagnostic methodologies and treatment protocols. Other complementary and alternative health care disciplines and their potential benefit to patient care are also reviewed. Students are encouraged throughout the course to critically appraise the techniques and the systems of healing.

CP 3303 Chiropractic Professional Ethics

Credits: 2.3

Coordinator: S. Kinsinger

Total hours: 30 Lecture

This course completes the core series in chiropractic principles and is designed to develop integration of information and application in a clinical context. Informed consent, professional boundaries and other ethical issues are presented. Scientific evidence in support of the chiropractic management of certain nonmusculoskeletal disorders is discussed and mind body medicine is introduced.

CP 3304 Chiropractic Practice: Business and Law

Credits: 2.2

Coordinator: B. Gleberzon

Total hours: 28 Lecture

The relevant implications to the practice of chiropractic of the Canadian legal system, provincial Acts, Regulations, Codes, Standards of Practice, Guidelines, Policies and Bylaws; regulatory, administrative, criminal, constitutional, tort and contract law; laws that govern privacy, confidentiality, consent, capacity and professional negligence; the history of self-regulation; the role of regulatory bodies and different models of regulation under which chiropractors practice are presented. The rights and obligations of the chiropractor and, more importantly, of the patient are emphasized. Attendance at a disciplinary hearing of a regulated health care professional is required.

Department of Chiropractic Therapeutics

Chair

B. Gleberzon, DC, BA, MHSc

The Department of Chiropractic Therapeutics facilitates proficiency in the psychomotor skills necessary to become competent in chiropractic diagnostic and therapeutic methods. This knowledge aids in the performance of effective adjustive, manual and/or manipulative procedures learned in laboratory sessions.

CT 1102 Chiropractic Skills I

Credits: 4.1

Coordinator: S. Kinsinger

Total hours: 102 Lab, 04 Force Sensing Table Lab

The course begins with examination procedures from simple observation to postural analysis. The necessary skills are developed to locate all points of surface anatomy pertinent to a chiropractic examination including joint challenge and analysis, motion palpation and joint pain provocation. Treatment skills include the introduction of 11 of the most commonly used high velocity, low amplitude (HVLA) adjustive procedures, soft tissue and osseous non-thrusting procedures.

CT 2204 Chiropractic Skills II

Credits: 4.6

Coordinator: B. Gleberzon

Total Hours: 116 Lab, 04 Force Sensing Table Lab

The skills associated with conducting a comprehensive examination (postural assessment, joint challenge, motion palpation, joint pain provocation) of the spine, pelvis and extremities continue to be honed. The adjustive procedures taught in the previous year are reinforced and a substantive number of additional procedures are introduced. Joint mobilization and soft tissue procedures are taught for each region of the musculoskeletal system. The approach used to correlate examination findings, arrive at a diagnosis and formulate a treatment protocol is introduced.

CT 2205 Rehabilitation in Chiropractic Practice: A Regional Approach

Credits: 1.9

Coordinator: K. Pennell

Total hours: 23 Lecture, 02 TBL*

The following occupational and disability management issues are presented: Contemporary use of exercise for the rehabilitation and functional restoration of the musculoskeletal system; planning, prescribing, and monitoring exercise programs; indications for therapeutic exercise prescription and concepts of exercise progression; and the chiropractor's role in functional recovery.

CT 3306 Chiropractic Skills III

Credits: 4.2

Coordinator: G. Ruhr

Total hours: 108 Lab

Emphasis is placed on proficiency in conducting a comprehensive examination of the spine, pelvis, extremities and rib articulations. New adjustive procedures and other treatment options such as manual and instrument assisted soft tissue technique and mobilization are introduced while adjustive procedures taught in the previous two years are reinforced. The ability to correlate analysis with treatment protocol is developed to prepare students for their clinical year.

CT 3307 Auxiliary Chiropractic Therapy

Credit: 1.0

Coordinator: D. Starmer

Total hours: 12 Lecture, 02 Lab

The basic physics, physiological principles, indications and contraindications, and appropriate applications of therapeutic modalities, which include electrotherapy, hydrotherapy, mechanotherapy, phototherapy, thermotherapy, and cryotherapy are presented.

Department of Diagnostic Imaging

Chair

T. Pringle, BPE, BA, DC, FCCR(C), DACBR

The Department of Diagnostic Imaging provides the academic and practical skills necessary for the production and diagnostic interpretation of radiographs and advanced imaging procedures. Radiation protection and radiobiology are stressed. The role of diagnostic imaging in patient evaluations and its importance as it relates to chiropractic practice are presented.

DI 1101 Diagnostic Imaging Interpretation for Chiropractic Practice I

Credits: 3.6

Coordinator: T. Pringle

Total hours: 34 Lecture, 25 Lab

A comprehensive introduction to normal radiographic anatomy of the axial and appendicular skeleton is provided with investigation of common skeletal variants and congenital anomalies. Scoliosis and spondylolytic spondylolisthesis, an introduction to the appearance of normal anatomy as seen on advanced imaging studies, and extensive overview of skeletal trauma are presented. Practical application and imaging interpretation are fundamental for all topics; clinical presentation and patient management decisions are incorporated.

DI 1102 Fundamentals of Radiography

Credits: 1.5

Coordinator: B. Corr

Total hours: 15 Lecture, 3 Lab, 7 SDL†

The fundamentals of radiography, including radiation physics and the safe production of quality images, are introduced to facilitate understanding of how radiographs are produced. Fundamental principles of ionizing radiation and patient exposure are addressed.

DI 2201 Diagnostic Imaging Interpretation for Chiropractic Practice II

Credits: 3.0

Coordinator: C. Columbus

Total hours: 30 Lecture, 18 Lab

A comprehensive introduction to radiographic interpretation of normal, variant and pathological states of the extremities is provided. Specific disease processes including tumours and tumour like lesions, infections of bone, metabolic/endocrine disorders and vascular conditions are explored. Fractures, dislocations and soft tissue injury of the entire skeletal system are discussed. Advanced imaging procedures, as appropriate, and film quality assessment and radiation dose are considered.

DI 3203 Diagnostic Imaging Interpretation for Chiropractic Practice III

Credits: 2.5

Coordinator: T. Pringle

Total hours: 25 Lecture, 15 Lab

The aetiology, pathology, signs and symptoms, radiographic features, and management of major rheumatic diseases are presented as they relate to chiropractic practice. Special emphasis on spinal degenerative joint disease and inflammatory conditions leads to the development of a differential diagnosis and pertinent therapeutic scenarios. Clinical judgment in ordering and interpreting appropriate imaging studies, a review of the clinical and physiological characteristics related to rheumatologic conditions and their prognoses, orthopaedic examination procedures, interdisciplinary referral and case management are discussed. Fundamentals of radiographic report writing are presented and applied to comprehensive radiographic differential diagnoses. Comprehensive imaging differential diagnoses challenge students to interpret imaging of any possible disease category, as indicated by clinical symptomatology.

DI 3301 Radiological Technology

Credits: 2.6

Coordinator: B. Corr

Total hours: 23 Lecture, 22 Lab

The production of radiographs of good diagnostic quality with minimum patient exposure is emphasized, including patient positioning, calculation of proper technique factors, equipment operation and operator protection. Simulated radiographic equipment and phantom exposures are used. The biological effects of radiation are emphasised, along with its application to the diagnostic radiographic process relating to the protection of the patient, the operator and the general public, and to the rules and regulations of the Ministry of Health and Long-Term Care and the Ministry of Labour.

DI 3302 Diagnostic Imaging Interpretation for Chiropractic Practice IV

Credits: 1.4

Coordinator: C. Columbus

Total hours: 12 Lecture, 12 Lab

Soft tissue radiology presents the range of normal appearances of chest and abdominal radiographs, patterns of abnormal disease processes in these regions and indications for prompt referral. The indications for contrast studies and special imaging procedures for the chest and abdomen are reviewed.

DI 4401 Advanced Diagnostic Imaging

Credits: 1.8

Coordinator: P. Yelder

Total hours: 18 Lecture, 12 SDL†

Advanced imaging for the detection and evaluation of musculoskeletal and other conditions is presented, including Magnetic Resonance Imaging (MRI), Diagnostic Ultrasound (DUS), Single Photon Emission Computed Tomography (SPECT), Positron Emission Tomography (PET), Electron Beam Tomography (EBT), Bone Densitometry, Nuclear Medicine and Computed Tomography. A basic understanding of the various techniques, their clinical indications, contraindications and usefulness in a clinical setting, and the need for referral for further evaluation and/or co-management as appropriate are provided.

Department of Pathology and Microbiology**Chair**

S. Injeyan, BSc, MSc, PhD, DC

The Department of Pathology and Microbiology provides curriculum that highlights etiologic, diagnostic and preventive aspects of disease. The information gleaned from these areas provides a basis for better understanding of the clinical courses.

PA 2203 Patho-Immunology

Credits: 4.2

Coordinator: J. Teodorczyk-Injeyan

Total hours: 54 Lecture

The role of innate and acquired immunity in maintaining health is discussed through topics including immunoregulation, infections, vaccination and neuroendocrine immunology. The basic pathological mechanisms involved in cell death, necrosis, inflammation, tissue repair, immunologic disorders and neoplasia are presented. The relationship between these processes, clinical presentation and rationale for treatment are discussed.

PA 2205 Microbiology and Infectious Diseases

Credits: 5.8

Coordinator: S. Injeyan

Total hours: 67 Lecture, 18 Lab

The fundamental concepts of bacteriology, virology, parasitology and mycology are introduced. The classification and characteristics of infectious organisms are described and the concepts of virulence, pathogenicity, disease transmission, and the principles of prevention including immunization are discussed. Pathogenic microorganisms are introduced and discussed in the context of the mechanism of disease production as well as clinical consequences. The course ends with a series of case presentations designed to integrate information learned about various pathogens with a focus on overlapping signs and symptoms of disease, differential diagnosis, and management strategies. Microbial morphology and, where appropriate, culture characteristics are studied in the laboratory and case presentations are used to highlight clinical applications.

PA 2306 Toxicopharmacology

Credits: 2.3

Coordinator: J. Mayer

Total hours: 30 Lecture

The general principles of molecular and clinical pharmacology, with emphasis on pharmacokinetics, pharmaceutical sciences, pharmacodynamics, receptor pharmacology and the quantification of drug action are introduced. Key topics of toxicology are related to the clinical setting and exposure to the pharmacology and toxicology of drugs likely to be encountered in the chiropractic clinic are presented.

PA 3201 Systems Pathology

Credits: 4.4

Coordinator: A. Teitelbaum

Total hours: 57 Lecture

Systemic pathology, including aetiology, pathogenesis, morphology and microscopic features of major diseases and neoplasms involving different body organs are provided. Problems and clinical case scenarios are included to facilitate understanding and correlating the pathology with clinical presentation.

PA 3305 Clinical Laboratory Diagnosis

Credits: 3.2

Coordinator: R. Moore

Total hours: 37 Lecture, 08 Lab

The use of laboratory findings in clinical decision making in health and common disease states is demonstrated and discussed. Problem solving exercises are undertaken with data from the biochemistry, immunology and haematology laboratories.

PA 4407 Public Health

Credits: 3.0

Coordinators: K. Randhawa, S. Varanharajan

Total hours: 20 Lecture, 19 Online

Topics that impact the health of individuals, communities and society at large are explored within the context of the public health system in Canada. Included in the discussions are basic epidemiology, health policy, population health, environmental health, disease prevention, health behaviours, the impact of culture on public health, communicable and non-communicable diseases, and work disability prevention.

Department of Physiology and Biochemistry**Chair**

I. Fraser, BA, MSc, PhD

The Department of Physiology and Biochemistry provides courses in biochemistry, physiology, neuroscience and nutrition. The information provides a foundation for understanding human physiology and biochemistry as a basis for sound clinical management. An introduction to the role of nutrition and nutritional supplements in disease management and health promotion is provided.

PH 1101 Biochemistry I, Intermediary Metabolism

Credits: 7.2

Coordinator: I. Fraser

Total hours: 66 Lecture, 09 Lab, 14 TBL*, 18 SDL†

The metabolism of carbohydrates, lipids, and proteins is introduced with emphasis on biological control mechanisms and the application of these principles in chiropractic practice.

PH 2204 Systems Physiology

Credits: 5.2

Coordinator: B. Budgell

Total hours: 60 Lecture, 14 SDL†

Aspects of human physiology which are most relevant to chiropractic practice are discussed within the context of case studies with particular emphasis on the musculoskeletal, cardiovascular and respiratory systems. Neural regulation of human function is a theme which runs throughout the course, as well as the physiology of the digestive, renal, endocrine and reproductive systems.

PH 2205 Neuroscience for Chiropractic Practice

Credits: 5.4

Coordinator: D. Liu

Total hours: 70 Lecture

Chemical, anatomical and physiological components of the sensory, motor and autonomic nervous systems are discussed and integrated with chiropractic principles where applicable. Cranial nerves, development and aging of the nervous system, the cerebral cortex and higher cortical function, and diseases of the central nervous system are presented.

PH 2206 Biochemistry II, Health and Wellness

Credits: 4.4

Coordinator: R. Riazi

Total hours: 52 Lecture, 10 SDL†

Basic nutrients and their roles within the body, and the importance of supplements in the prevention and treatment of a variety of conditions seen in chiropractic practice are presented.

PH 3407 Clinical Nutrition for Chiropractic Practice

Credits: 1.2

Coordinator: J. Meschino

Total Hours: 15 Lecture

The clinical skills to perform a comprehensive patient assessment and lifestyle management program are developed along with communication skills for collaboration with medical practitioners to obtain objective measurements (e.g., blood and urine tests, bone mineral density tests, PAP smears, PSA tests, mammograms, colonoscopies) important to making evidence informed recommendations regarding nutrition, exercise and supplementation.

Department of Undergraduate Research

The Department of Undergraduate Research, overseen by the Dean, Graduate Education and Research, provides the fundamentals of scientific research designs and skills for critical review of the literature. Emphasis is on the development of critical thinking skills and an understanding of the rigour and process of research necessary for discriminating judgement applied in clinical decision making.

For each academic year, students are required to attend a minimum of one of three Visiting Scholar lectures.

RM 1301 Applied Research and Biometrics

Credits: 2.0

Coordinator: J. Triano

Total hours: 10 Lecture, 16 TBL*

Knowledge and skills for critically appraising research methodology and the scientific literature are developed. The application of these critical appraisal skills is explored relative to treatment, diagnosis, prognosis and causation where different strategies are considered and an evidence informed understanding of patient care is presented.

RM 2301 Investigative Project — Topic Development

Credit: 0.4

Coordinator: D. Soave

Total hours: 10 SDL†

Students working in small groups identify an appropriate faculty supervisor and register a clinical research topic for their literature synthesis with the Research Methodologist. Research ethics training is provided through either the Tri-Council Policy Statement or National Institutes of Health resources, and online support is available.

RM 3301 Investigative Project — Protocol Development

Credits: 1.3

Coordinator: D. Soave

Total hours: 35 SDL†

Student groups successfully complete the literature synthesis proposal. Online support is provided.

Note: RM 3301 can be replaced by successful completion of RMO 3302.

RM 4301 Investigative Project — Completion and Report

Credits: 1.3

Coordinator: D. Soave

Total hours: 35 SDL†

Students are required to complete the work initiated by RM 2301 and proposed in RM 3301 during Year IV. The completion of RM 4301 requires that research data collection be concluded and the appropriate final report, approved by the faculty supervisor, be submitted to the Research Administrator.

Note: RM 4301 can be replaced by successful completion of RMO 3302.

Electives

RMO 3302 Original Research Project Development and Completion

Credits: 3.8

Coordinator: D. Soave

Total hours: 100 SDL†

Identification of a faculty research supervisor, completion of Research Ethics Board (REB) approval, as necessary, and a written report of the research of sufficient quality for submission for publication are required. The supervisor and course coordinator provide support with proposal creation, research design and analysis. Online resources are available.

Note: Successful completion of RMO 3302 will replace RM 3301 and RM 4301.

RMO 3303 Student Research Apprenticeship

Credits: 3.8

Coordinator: D. Soave

Total hours: 100 SDL†

Identification of a faculty project of interest, an agreement signed with the faculty investigator regarding tasks to be performed, and registration with the Research Administrator are required. Students will receive a certificate of appreciation for this course when their work has been completed. If an original student project emerges from a faculty project, students can enrol in RMO 3302 to receive credit for their original project under the conditions associated with that elective.

Academic Policies and Procedures

The academic policies at CMCC have been developed to protect the rights and responsibilities of students and to maintain the academic integrity and ethical standards of the institution. CMCC reserves the right to change academic policies and procedures. Questions and clarification regarding policies and procedures are to be directed to the Registrar. All current and full text academic and institutional policies and procedures are available on MyCMCC or from the Registrar.

Undergraduate Student Code of Conduct: Regulated Practice

1. A student enrolled in the Doctor of Chiropractic Program is bound by and shall comply with the statutes, regulations, standards, guidelines and policies governing the profession in Canada and any applicable province or state in which they may be residing or visiting.
2. Students are prohibited from holding themselves out or allowing themselves to be represented as a chiropractor.
3. Unless otherwise approved in writing by a Dean of CMCC, in no circumstance shall a student adjust/manipulate or allow themselves to be adjusted/manipulated by another student without the supervision or direction of a licensed or registered member of the chiropractic profession, who is a member of the CCPA and is a faculty member of CMCC.
4. Unless otherwise approved in writing by a Dean of CMCC, a student is prohibited from providing treatment, advice, or acting in a clinical manner as it relates to a health profession for which he/she is not licensed or registered in Ontario, with any person inside or outside of CMCC without the supervision or direction of a licensed or registered member of the chiropractic profession, who is a member of the CCPA and is a faculty member of CMCC.
5. Consent of an individual is not justification for inappropriate conduct by a student.
6. CMCC retains the right to initiate disciplinary action for any breach of conduct involving academic integrity, morality, ethics, or legality on or off CMCC property or in cases where a student conducts himself/herself in a manner unbecoming a member of the educational institution or the profession.

Undergraduate Attendance Policy

1. Students registered in the Doctor of Chiropractic degree program are required to meet CMCC's expectations regarding attendance in all aspects of the curriculum.
2. Students must attend and participate fully in all laboratories, small groups, Team Based Learning (TBL) and clinical experiences.
3. Students are required to be on time for all laboratories, small groups, TBLs and clinical experiences, and to remain until the allocated time is completed.

4. Late attendance in excess of 10 minutes will be recorded as an absence.
5. Students in Years I, II and III must limit vacations to the periods designated by CMCC as official breaks. Year IV students must work with the Clinic Management Team to ensure that their vacations do not interfere with internship expectations.
6. A student who misses more than 20% of laboratories, small groups, TBLs and/or clinical experiences for any course, will not be allowed supplemental privileges in that course and may be subject to additional penalty as stated in the course outline.
7. A student who does not report to classes, laboratories, small groups, Team Based Learning (TBL) and clinical experiences in the first 10 consecutive days of the program may be deemed as in non-attendance, and could be subject to administrative withdrawal from the academic program.
 - a) In extenuating circumstances, where a student is unable to attend during the first 10 consecutive days of the program year, he/she must notify the Director of Education in writing, at least 24 hours prior to the first day of classes for that module. It is only under these circumstances that the Dean of Undergraduate Education will permit a student to be absent from the program for the first 10 days of the program.

Academic Freedom Policy

1. All students enjoy the right to the fullest possible freedom of inquiry. In particular, this includes:
 - the freedom to communicate in any reasonable way and to discuss and explore any idea
 - the freedom to move about CMCC, and to the reasonable use of the facilities of CMCC
 - the freedom from discrimination or harassment on the basis of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, age, marital status, family status or disability
2. All students enjoy the following freedoms in relation to their freedom of association, subject to policies and procedures:
 - the freedom to hold and advertise meetings, to debate and to engage in peaceful demonstrations
 - the freedom to organize groups for any lawful purpose
 - the freedom of the reasonable use of CMCC facilities for the purpose of any lawful group

Academic Honesty Policy

1. CMCC recognises the responsibility of all students, employees and applicants to foster standards of academic honesty and integrity, and to be knowledgeable of, and act in accordance with such standards.

2. It is a breach of academic honesty to:
 - plagiarize or falsely claim credit for the ideas, writings, projects or creations of others
 - cheat
 - attempt to or actually alter, suppress, falsify or fabricate any research data or results
 - aid or abet another individual in an act of academic dishonesty.
3. All CMCC employees and students are expected to be vigilant regarding breaches of academic honesty and are responsible for taking appropriate action when it is believed that a breach of academic honesty has occurred. Any member of CMCC who fails to report the existence of a violation by another member may be found guilty of participating in the violation.
4. All suspected breaches of academic honesty will be investigated and may be subject to disciplinary action and penalty, which may include the imposition of a fine, restitution, suspension or expulsion from CMCC.

Non-Discrimination and Harassment Policy

1. Every member of the CMCC community has the right to study, work and conduct his/her activities in an environment free of discrimination and harassment, and supportive of academic achievement, dignity and self esteem.
2. CMCC shall provide a working and learning environment free of discrimination and harassment exercised by or against an individual by reason of race, colour, ancestry, place of birth, national origin, citizenship, creed, religious or political affiliation or belief, sex, sexual orientation, physical attributes, family relationship, age (except as consistent with applicable legislation), physical or mental illness or disability, place of residence, or record of offences.
3. This policy shall not preclude any equity measures implemented by CMCC or as required by law.
4. There shall be no harassment or sexual harassment exercised by or against an individual.
5. Conduct and/or behaviour also constitutes harassment, whether or not it is based on the prohibited grounds of #2 above, when it creates an intimidating, demeaning or hostile working or learning environment.
6. There shall be no reprisal or retaliation nor any threat of reprisal or retaliation against anyone for pursuing rights under this policy. Any such alleged reprisal or retaliation or threat thereof shall be equivalent grounds for laying a complaint under this policy.

Discipline Policy

1. Student misconduct or any act that violates the policies of the institution, or breaches of conduct involving morality, ethics or legality that could affect the

reputation of the institution and the chiropractic profession, or an attempt to commit or assist someone to commit such acts, is subject to discipline.

2. Any member of the CMCC community who has reason to believe that an academic offence has been committed by a student has a responsibility to report the matter promptly to the instructor of the course or to a Dean.
3. Any member of the CMCC community who has reason to believe that a non-academic offence has been committed by a student has a responsibility to report the matter promptly to the Registrar, a Dean or the President.
4. In matters where there are allegations of disruptive, violent or threatening behaviour on the part of students (including but not limited to assault, vandalism, theft and similar behaviour), CMCC reserves the right to contact and/or refer the matter to the police.
5. Where the alleged misconduct presents, or has the potential to present, a threat of harm or violence to any member of the CMCC community, including the accused him/herself, the institution reserves the right to impose interim measures to ensure the safety and security of all members of the institutional community. These measures may include, but are not limited to:
 - a) the temporary suspension or removal of the accused from any or all of: the academic program, the campus, clinics, or other institutionally sanctioned activities
 - b) limiting or restricting access to programs, facilities and resources
 - c) other temporary measures as deemed necessary by CMCC.
6. Interim measures are deemed to be in place pending the investigation into the discipline matter and its eventual resolution, or until such time as the accused can substantiate, through an appropriate third-party professional assessment, his/her suitability to return to the institution and not present a threat to his/herself or others in the community.
7. Students are individually responsible for their actions and/or misconduct whether acting alone or in a group and have an obligation to make responsible decisions concerning their conduct.
8. No degree shall be awarded, nor change in academic status provided, nor shall a student be allowed to withdraw from an individual course or program when an offence is alleged to have been committed, from the time an alleged offence is reported until the final disposition of the matter.
9. The procedures for handling offences reflect the gravity with which CMCC views such offences, while maintaining a student's right to fairness and due process, including a process of appeal and adherence to the Rules of Natural Justice. Assessing the gravity of an offence will not only include the alleged offence itself, but consideration may also be given to the frequency of the offence, the accused's prior discipline history, the impact of the offence on the institution, its members, its reputation, and that of the chiropractic profession, and such other factors as may be relevant.
10. CMCC retains absolute discretion as to the dissemination of all or a portion of the information relating to discipline and relevant decisions.

Procedures

Section 1: Initiating a Disciplinary Hearing

1. With respect to all disciplinary issues, the Registrar shall be available to inform the student regarding the processes and procedures.
2. At the discretion of the President, the decision making process may be commenced at any intermediate stage, and only appealed to the Board of Governors. Such appeal is discretionary in nature and only applicable to a decision of expulsion.
3. Any individual may institute proceedings by setting out in writing the nature of the complaint, the name of the accused and all particulars necessary to begin the proceedings.
4. Any complaint regarding discipline shall be received by the President in a timely manner. Within 14 days after receiving the complaint, the President shall determine whether proceedings shall be continued and a hearing be constituted (and a Disciplinary Board established), or notify the complainant that no further proceedings shall take place pursuant to the complaint.
5. In the event that a hearing is directed, the President shall inform the Discipline Board of such direction within seven days after the expiry of the time referred to above.
6. Nothing in this enactment shall prevent the President at his/her sole discretion from dealing with any complaint submitted pursuant to this enactment and imposing any penalty within the President's power.
7. In the event that a complaint is dealt with by the President, without a hearing, an accused or complainant may appeal the decision (Notice of Appeal) of the President by setting out in writing a request that a hearing be directed pursuant to this enactment.
8. The Notice of Appeal shall be in the form as approved by CMCC from time to time and must be received by the President within seven days of the accused having been notified of the decision of the President. Upon receipt of the Notice of Appeal, the President shall direct that proceedings be instituted as if a complaint had been originally directed to the President as set out above.
9. A decision of the Discipline Board made pursuant to this enactment shall supersede and render null and void the decision of the President.

Section 2: Alternate Dispute Resolution

1. Breaches of conduct may, at the discretion of the President, be referred for alternate dispute resolution.
2. In the situation where a decision has been reached through an alternate dispute resolution, the parties involved must attend before the Discipline Board, which may choose to accept, reject or amend the decisions reached through the alternate dispute resolution.
3. In the event of a rejection of the alternate dispute resolution decision, the matter shall proceed to a hearing before a Discipline Board constituted of new members who have not dealt with the matter previously.

Section 3: Discipline Board Hearings

A) Members of the Discipline Board (Board)

1. The Board appointed under this Policy to deal with an alleged offence by a student shall be appointed by the President and consist of the President of Students' Council, a student representative from a class other than that of the accused, and three employees who carry an academic rank, each having a vote.
2. The Registrar shall be an ex-officio member of the Board with no voting privileges.
3. The President shall appoint as Chair, a non-student member from among the members of the Board. The Chair shall preside over all matters under the Board's jurisdiction and shall also have a vote.
4. The President may appoint an investigator to compile all relevant information necessary to carry out the investigation of the accused, and to preside at any proceedings that take place pursuant to the complaint.
5. In addition, the President may appoint an individual to prosecute the complaint on behalf of CMCC.
6. The President may appoint a clerk to compile and retain all records of a hearing, and to attend at all hearings for the purpose of fulfilling any directions of the Board, such as the reading of a charge and the affirming of witnesses.
7. A person appointed by the President as investigator, prosecutor or clerk may hold multiple positions.
8. In the event that a member of the Board shall be unable or unwilling to act, the member shall be replaced by an alternative member appointed by the President.
9. In the event that any member of the Board cannot act as a result of bias, or otherwise, an alternative member shall be appointed by the President.

B) Notice of Hearing

1. The Board shall notify the accused that a hearing will take place within seven days of it receiving notification by the President that a hearing shall be constituted.
2. The Board shall give all parties notice of the hearing, which shall include:
 - a) a statement of the time, place and purpose of the hearing
 - b) a statement that if the party/ies notified do not attend at the hearing, the Board may proceed in their absence, and the party/ies will not be entitled to any further notice in the proceedings.
3. Notices of hearing shall be undertaken in accordance with CMCC policies on notice to students.

C) The Hearing

1. Subpoena: The Board, on its own or at the request of the accused or prosecution, shall issue a subpoena directing any student, or employee to attend at a hearing. Any person failing to comply with the terms and directions for the subpoena shall be subject to any sanction imposed by the Board.

2. **Attendance of Board Members:** At least one member of the Board shall attend at the time and place set out in the Notice of Hearing, at which time the complaint shall be read to the accused, and a date shall be set for the adjudication of the complaint.
3. **Non Attendance:** Where the Notice of a Hearing has been given to a party to any proceedings in accordance with this enactment, and the party does not attend at the hearing, the Board may proceed in their absence and the party is not entitled to any further notice in the proceedings.
4. **Public Attendance:** A hearing may be open to the public except where the Board, in its sole discretion, is of the opinion that the matter should be held in the absence of the public with only those persons allowed to attend as determined by the Board.
5. **Order and Direction:** The Board may make such order or give such direction as it considers necessary for the maintenance of order at the hearing and/or any proceedings that take place under and pursuant to the direction of the Board; and, if any person disobeys or fails to comply with any such order or direction, the Board may impose such penalty as it deems appropriate against any offender and within the power of the Board.
6. **Rights of the Accused:** An accused may, at his/her discretion at the hearing:
 - be represented by counsel or an agent, or act on his/her own behalf
 - call and examine witnesses and present his/her arguments and submissions
 - conduct cross-examinations of witnesses at a hearing that may be reasonably required for a full and fair disclosure of the facts in relation to which they have given evidence
 - choose to testify or not testify on his/her own behalf.
7. **Testimony Under Oath:** Testimony shall be given by a witness after being advised by the Chair as to the requirement to tell the truth, a warning if such evidence is not truthful, and an undertaking by the witness to abide by the same.
8. **Evidence and Information:** The Board may, in making its decision:
 - take notice of facts that may be judicially noticed
 - take notice of any generally recognised scientific or technical facts, information or opinions within its scientific or specialized knowledge
 - admit as evidence at a hearing, evidence not given or proven under “oath or affirmation”
 - admit, upon the Board being satisfied as to their authenticity, any documents or other things.
9. **Board Decision:** A decision of the Board shall be:
 - based upon a majority decision of the Board
 - kept confidential to the extent determined by the Board.

The Chair will prepare a written decision setting out the reasons for the decision within five business days of the termination of the hearing. The members of the Board shall confirm or reject acceptance and approval of the written reasons. Dissenting members need not set out a reason for their vote unless they wish to do so.

10. Notice of Decision:
 - The Board shall, within 14 days following the conclusion of a hearing, inform the President and the Registrar of the decision of the Board, together with reasons therefore, where reasons have been given.
 - The Registrar will provide the student with the written decision of the Discipline Board within five business days of receipt of the decision.
11. Penalty: The Board may impose one, more than one, or any combination of the following penalties:
 - fine
 - restitution
 - suspension
 - expulsion
 - such further and other penalty as the Board may deem appropriate.
12. Disciplinary decisions rendered by the Discipline Board as they relate to the student having been found guilty of an academic offense will be recorded on the student's transcript. Other disciplinary decisions as they relate to a guilty finding on an academic offense may be recorded on the transcript at the discretion of the President.
13. No Decision: In the event that the Board is unable to come to a decision:
 - it shall forthwith notify the President
 - the President may direct new proceedings to be commenced, or direct that the complaint be withdrawn, in which case no further proceedings may be instituted pursuant to this charge.
 - the Registrar shall notify the accused of the President's direction
14. Record of Proceedings: The Board shall not be required to keep a detailed account or testimony of the proceedings, but must compile a record of proceedings (which is stored in the corporate file), and which shall include:
 - any complaint by which the proceedings were commenced
 - the notice of any hearing
 - any intermediate orders made by the Board
 - all documentary evidence filed with the Board
 - the decision of the Board, and the reasons therefore, where reasons have been given.
15. Timeliness: In the event that a penalty imposed by the Board is not satisfied within the time prescribed by the Board, it may impose such further and other penalty as it deems appropriate at the initiation of the President.
16. Indemnity: No action or proceeding whatsoever shall be commenced against any member of the Board for their having participated in the activities of the Board.
17. Irregularities: No decision of the Board shall be set aside as the result of any irregularities which take place, except at the sole discretion of the Board. The President may extend the time requirements set out in this enactment.
18. External Review: Save and except for an appeal to the CMCC Board of Governors relating solely to a decision relating to the penalty of expulsion, no decision, order,

direction, declaration or ruling of the Board shall be subject to appeal, question or review in any court; and no order shall be made or process entered or proceedings taken in any court, whether by way of injunction, declaratory judgment, certiorari, mandamus, prohibition, judicial review or otherwise, to question, review, prohibit or restrain the Board or any of its proceedings.

The review by the CMCC Board of Governors shall be limited to the penalty imposed and shall be undertaken by the Executive Committee of the Board of Governors, in writing, by teleconference, or in person as they shall, in their sole discretion, determine appropriate.

Undergraduate Residency Policy

Residency in the Undergraduate program cannot exceed five years.

Part Time Student Policy

1. A part time student is an undergraduate student enrolled at CMCC for less than 60% of a full time student load in the following circumstances:
 - a) Upon the recommendation of the Promotions or Graduation Committees, a student who has failed a course(s) may repeat said course(s) on a part time basis.
 - b) Upon the recommendation of the Dean of Undergraduate Education, in cases where a student is unable to continue in the program on a full time basis due to a personal/health reason.
 - c) Upon the recommendation of the Dean of Undergraduate Education, to meet course requirements needed to transfer into the program from another accredited chiropractic program.
2. A part time student is responsible for maintaining competence in psychomotor skills and related academic fields through a program arranged by the Dean of Undergraduate Education.
3. A student accepted as a part time student under this provision is subject to all CMCC academic policies.
4. A part time student will be required to pay a prorated tuition fee based on the number of credits for which he/she is enrolled and all auxiliary fees as set out in the Academic Calendar for that year.

Leave of Absence Policy

1. A student may be granted a leave of absence in extenuating circumstances for a maximum of one academic year.
2. Students who are granted a leave of absence will not be able to re-enrol in the program until the beginning of the subsequent academic year.
3. Students returning from a leave of absence are subject to the curriculum as prescribed by the academic year of re-enrolment into the program, inclusive of any curricular modifications during the absence.

4. Students on a leave of absence will retain credit for all courses that have been completed prior to the commencement of the leave.
5. Students who are granted a leave of absence will retain access to their CMCC e-mail account and the learning management system, and are required to abide by the associated policies and procedures for their use.
6. Students on a leave of absence will be expected to maintain their clinical skills for the duration of their absence, and will be required to undergo a clinical skills assessment prior to re-entry.
7. The period for which the student is on a Leave of Absence shall be noted on the transcript.

Grades Policy

1. The minimum passing grade is 60% for courses and OSCEs graded with a percentage.
2. The composition of a final grade may include but is not limited to integrated examinations, course specific examinations, surprise quizzes, term tests, laboratory examinations and assignments, problem sets, case write-ups, essays, oral class presentations, take home examinations, attendance, verbal participation, Team Based Learning (TBL) assessments, Objective Structured Practical Examinations (OSPEs), Objective Structured Clinical Examinations (OSCEs), or practical examinations. Students must meet the published requirements in each course.
3. Grades are recorded as follows:

Letter Grade	Percentage	Grade Point
A+	90-100	4.00
A	85-89	4.00
A-	80-84	3.70
B+	77-79	3.30
B	73-76	3.00
B-	70-72	2.70
C+	67-69	2.30
C	63-66	2.00
C-	60-62	1.70
F	0-59	0.00
W	Withdrawal	0.00
WF	Withdrawal with Failure	0.00
INC	Incomplete may be assigned by the course coordinator if there is any outstanding work. Students must resolve the outstanding work within specified time lines and meet the promotional standards before proceeding in the program.	
TR	Transfer Credit	
PASS	Successful completion of non-graded courses	
FAIL	Unsuccessful completion of non-graded courses	

4. The Grade Point Average (GPA) is calculated per year. The Cumulative Grade Point Average (CGPA) is calculated over the entire academic history at CMCC and is used in determining promotion and awards.
5. Grade Point Averages are weighted calculations based on the grades received and the credit values of the courses.
6. The GPA is determined by multiplying the grade point (related to the final mark) with the course credits for each course and dividing this sum by the total number of credits obtained. Failed courses are included in this calculation.

Transfer Credit

Unless specifically stated otherwise, all courses at CMCC are compulsory.

1. CMCC may grant Transfer Credit for courses successfully completed at the university level, under the following circumstances:
 - the student must have earned a minimum of a B in the course
 - the course(s) must have been completed within five years preceding admission to CMCC
 - the course for which transfer credit is being sought must be one which CMCC has designated as being eligible for transfer credit
 - the learning outcomes for the university level course must show significant alignment and similarity (80% or more) with the CMCC course learning outcomes, as determined by CMCC
 - the student must pass a written CMCC examination with a minimum of B, confirming the required level of competency
2. A student may not be granted Transfer Credit for more than 40% of a full time academic load, unless the student is applying for advanced standing under the Undergraduate Student Transfer Policy.
3. Transfer Credit will be recorded on the student transcript as TR and will not be calculated in the student's GPA.
4. Transfer Credit is a privilege, not a right.
5. Transfer Credit will not be unreasonably withheld.

Academic Withdrawal Policy

Voluntary Withdrawal

1. Students who withdraw from a course before half of the course is completed, or who withdraw from the academic year prior to January 31 for Years I to III, or November 30 for Year IV will receive a "W" (withdrawal) on their official student record and credit will not be awarded for the course or for any courses where a final grade was not earned. A grade of "W" will not be calculated into the student's GPA at CMCC. An academic status of "Withdrawal" will be recorded on the student's transcript.

2. Students who withdraw from a course after half of the course is completed, or who withdraw from the academic year after January 31 for Years I to III, or November 30 for Year IV will receive a “WF” (withdrawal with failure) on their official student record and credit will not be awarded for the course or for courses where a final grade was not earned. A grade of “WF” will be calculated into the student’s GPA at CMCC. An academic status of “Withdrawal with Failure” will be recorded on the transcript.
3. The date of voluntary withdrawal will be noted on the transcript.
4. The institution shall advise the student in writing of the terms and conditions of the withdrawal and the conditions for readmission. Any student who withdraws from the program and wishes to return must reapply. The application shall be dealt with at the sole discretion of the institution.

Administrative Withdrawal

1. Students may be withdrawn from CMCC by Administration for academic failure, non-attendance, academic offences, or violation of other CMCC policies. Students who have been withdrawn from the program will receive a grade of “F” on all incomplete courses. An academic status of “Withdrawn” will be recorded on the transcript.
2. The date of the administrative withdrawal will be noted on the transcript.
3. The institution shall advise a student in writing of the terms of the withdrawal.

Students are responsible for ensuring that they are familiar with policies specified in provincial/federal loan policies, including the Satisfactory Scholastic Standard Policy. In the instance of a student’s non-compliance with the provincial/federal Satisfactory Scholastic Standard Policy requirements, CMCC is required to notify the appropriate government agency. The student’s ability to receive provincial/federal loans may be affected. Compliance with the Satisfactory Scholastic Standard Policy requirements is the responsibility of the student. A fee will be assessed to the student by CMCC for any confirmation of reinstatement that is submitted on behalf of a student.

Promotion Policy

1. Years I, II & III:
 - a) Students are eligible to advance to a higher year of study when all components of the preceding year are successfully completed, or when, at the discretion of the Promotions Committee, arrangements are made to allow for completion of a failed course(s).
 - b) A student enrolled in Year I, II or III must pass the end of year OSCE in order to proceed to the subsequent year. Students have a maximum of two opportunities to sit the OSCE, the first examination and one supplemental.
 - c) A student enrolled in Year I, II, or III who, after supplemental privileges, fails a course(s) and whose post-supplemental yearly GPA is less than 1.70 will be considered to have failed the year and will be withdrawn from the program.

2. Year IV:
 - a) A student enrolled in Year IV must have passed all courses, all components of the clinic exit examination, and have a minimum cumulative GPA of 2.00 in order to be eligible to graduate.
 - b) The satisfactory completion of Year IV includes all quantitative and qualitative requirements of CE 4405.
3. Students who, for any reason, interrupt their full time study will be subject to additional requirements to ensure maintenance of clinical skills.

Academic Probation Policy

Students whose post-supplemental, cumulative or end of year GPA is less than 2.00 but greater than 1.70, or who fail one or more courses and register as a part time student, will be placed on academic probation.

Students on academic probation must achieve a yearly GPA of 2.50 in their subsequent year of study and must maintain this until their cumulative GPA reaches the 2.00 necessary for graduation.

Graduation Policy

1. Students graduating from CMCC with a Doctor of Chiropractic degree must meet the following criteria necessary for graduation:
 - earn a minimum cumulative GPA of 2.0
 - complete all academic program requirements
 - fulfill all administrative and financial obligations to CMCC
2. A student shall receive status as a graduate of CMCC upon being conferred the Doctor of Chiropractic (DC) degree and taking the Chiropractic Oath.
3. Graduation Honours are awarded as follows:
 - Cum Laude: Minimum cumulative GPA of 3.70
 - Magna Cum Laude: Minimum cumulative GPA of 3.80
 - Summa Cum Laude: Minimum cumulative GPA of 3.90
4. The official date of graduation is the latter of the date of the Convocation ceremony or the date upon which a student is conferred his/her degree and takes the Chiropractic Oath.

Examination Policy

1. Students must take examinations at the time scheduled by the faculty member or outlined on the examination schedule provided by the Undergraduate Education Program.
2. Students must adhere to current examination procedures.

3. Students will not be admitted to an examination after the posted start time. Students arriving late for an examination will be considered to be absent and may be eligible for a deferred examination.
4. A student who does not take an examination at the scheduled time will receive a mark of zero for that examination.
5. The examination booklet and/or answer sheet are the only acceptable documents for the determination of a student's mark on an examination.
6. Very occasionally, students encounter extenuating circumstances under which it is impossible for them to take an examination at the scheduled time (e.g., because of a serious illness or the death of a close family member). In such cases, a student may be eligible for a deferred examination.

Procedures

For all examinations conducted during the official examination period, students must adhere to the procedures documented below. This list is non-exhaustive and the final decision(s) on issues will be made by the proctor(s).

1. For all written examinations students must provide their own writing instrument(s); for examinations using answer sheets students need sharpened HB pencils.
2. The following are not allowed in the examination room: bags, purses, notes (including but not limited to prepared notes such as crib/cue sheets, word lists/memory aids), and electronic and telecommunication devices (including but not limited to cellular phones, pagers, MP3 players, CD players, programmable calculators, programmable pens, personal assistive devices and personal computers).
3. Students will not be allowed in the examination room wearing hats, coats, tops with hoods, pouches or pockets, or pants with large pockets.
4. Examination materials will be placed on the desks prior to the students entering the examination venue. No students will be admitted to the examination room during the distribution of the examination materials.
5. Seating is assigned on a random basis for all examinations. Seat numbers are posted outside the examination room. It is the responsibility of the student to check and confirm his/her seat number prior to each examination.
6. No one other than the candidates, the proctors and authorized personnel will be allowed in the examination room.
7. Talking is not permitted while students are in the examination room.
8. Students are expected to be outside the examination room 15 minutes before the start of the examination.
9. Once a student enters the examination room, he/she can only leave and return to the room if accompanied by a proctor.

10. Students are required to sign the attendance record provided and must have their student cards on their desks for purposes of identification.
 - a) If a student does not have his/her student card he/she will be asked for another piece of photo identification. The Director of Education will be notified.
 - b) The second time a student does not have his/her student card available for an examination he/she will be sent a reprimand letter by the Dean.
 - c) If a student does not have his/her student card available for an examination after receiving a reprimand letter from the Dean, he/she will not be allowed to write the examination.

Note: Replacement student cards are available in Media Services on the third floor for a minimal charge.

11. The chief proctor will indicate the beginning of the examination, at which time the student will turn his/her examination over and write his/her name and student number on the examination booklet and answer sheet.
12. The examination booklet and answer sheet must be kept in front of the student at all times.
13. Students who need to write notes during the examination may do so on any sheet with the exception of the answer sheet(s). Any answer sheets found to have notes on them will be considered as cheat sheets and the student may be subject to disciplinary action.
14. If a student feels that any question is ambiguous, he/she should write the question number on the cover of the examination booklet and describe the specific problem in the margin beside the question.
15. No examination booklet, answer sheet or other material issued for the examination may be removed from the examination room by any student.
16. No student who has completed the examination may leave the examination room until half the time allotted for the examination has passed and the attendance sheet has been signed and tallied.
17. Students will not be allowed to leave the examination room for bathroom breaks within the first 30 minutes of any examination.
18. Upon completion of the examination, a student must remain seated at his/her desk and raise his/her hand to indicate completion. After a proctor has collected the examination materials, the student may leave.
19. The chief proctor will advise students of the time remaining at half time, and when 10 minutes and five minutes are remaining.
20. The chief proctor will announce the termination of the examination, at which time students will place their pens or pencils down and remain seated at their desks to await collection of their papers.

Academic Appeals Policy

CMCC expects the academic judgments of its faculty members and staff to be fair, consistent and objective.

1. Students have the right to a thorough, respectful, and impartial review of their concerns when their academic status has been adversely affected by extenuating circumstances.
2. A student who fails an exam or a course may appeal for an additional opportunity to demonstrate his or her knowledge and understanding only if there are documented extenuating circumstances.
3. A student who believes that the result of an official re-read is unfair may appeal the decision.
4. Appeals are to be made to the Registrar.

Procedures

1. In all instances, students who believe an appropriate grade has not been assigned should first seek to resolve the matter with the responsible faculty member and the relevant Director of Education.
2. If a student continues to challenge a grade on the basis of a concern with the grading of an exam, he/she is directed by the Registrar to the Examination Re-read procedures as a prerequisite to further action.
3. Where there is little likelihood of the student gaining the necessary marks from a re-read, this step may be waived by the student, who must sign a waiver. If a satisfactory resolution cannot be reached the student should contact the Registrar, who will provide such assistance as may be reasonably required by the student.
4. Extenuating circumstances must be documented and brought to the attention of the Registrar at the earliest possible time. It is expected that, unless there are circumstances that prevent it, notice of the circumstances will be provided within one school day after the event. Circumstances brought to the attention of the Registrar after the one day period or when first available may not be used as grounds for an appeal.
5. A formal appeal must be submitted to the Registrar no later than two weeks after students have been notified by the Registrar that their final grades have been posted. The appeal must be in writing and include:
 - a) the specific nature of the appeal
 - b) the grounds for the appeal
 - c) the remedy sought
 - d) supporting documentation

Supporting documentation is essential to assist the Appeals Committee in their deliberations. Such documentation could include: medical certificates, letters of reference, relevant course outlines, curricula, transcripts, previously marked assignments and/or other material that may assist the student appeal. Extenuating circumstances that existed prior to or during examinations must be documented at the time the circumstances occur and will not be considered by the Appeals Committee if not previously and appropriately dealt with as outlined in step 4 and in the Examination Policy.

6. Satisfying himself/herself that proper procedures have been followed, at his/her discretion the Registrar, in consultation with the Dean of Undergraduate Education, may either attempt to resolve the matter in a manner deemed appropriate to all parties or refer the matter directly to the Chair of the Appeals Committee with his/her comments.
7. Notwithstanding the above, within five business days of receipt of an appeal the Registrar may deem the matter frivolous, vexatious or without merit and advise the student in writing that no further appeal proceedings will be instituted in the matter. In such event, the student will be entitled to appeal the decision within three business days to the President, who will confirm the decision or, alternatively, refer the matter to the Registrar to have it proceed through the appeal process.
8. The student will be informed in writing of the time and location of the meeting of the Appeals Committee and of the composition of the Committee. The student may reasonably challenge any voting member of the Appeals Committee regarding bias. The student is advised to appear on his/her own behalf; however, the hearing will proceed whether or not the student is in attendance. The student may bring one individual to the hearing and must notify the Chair at least one day in advance of the hearing of such attendance, the particulars of the individual, and the purpose of the attendance. The student will be advised that confidential information may be released during the meeting to which the guest will be privy.
9. The Appeals Committee consists of the Chair, the Registrar, three faculty members, and two students. The Chair and the Registrar are non-voting members. The two student representatives are typically the President of Students' Council and a student from the class of the appellant.
10. Voting is conducted by secret ballot and all votes remain confidential even to the voting members of the Appeals Committee. The outcome of the appeal is determined by majority vote.
11. The Chair will prepare a written decision setting out the reasons for the decision within five business days. The Members of the Committee shall confirm acceptance and approval of the written reasons within three business days. Dissenting members need not set out a reason for their vote unless they wish to do so. The Registrar will provide the student with the written decision of the Appeals Committee within five business days of receipt of the decision.

12. A decision of the Appeals Committee is final, subject to an appeal to the President of CMCC within three business days of the receipt of the written decision and reasons. The appeal may be made only on procedural grounds.
13. The President will review the case documentation for procedural correctness, prepare a written decision setting out the reasons for the decision and send the decision to the student within five business days of the request.

Duplicate Diploma Policy

CMCC will offer graduates the opportunity to order up to three duplicate diplomas at a cost determined annually by CMCC. A duplicate diploma will be identical to the original except for the words "Duplicate Diploma" placed over the seal.

Students with Disabilities

1. CMCC will provide accommodation to students with diagnosed and documented disabilities, as outlined in the Ontario Human Rights Code, subsection 10(1). An accommodation, however, cannot compromise minimum academic and technical standards, patient safety or clinical standards of care. A student with a documented disability must be able to demonstrate the required knowledge and perform the necessary skills as required by the program.
2. Students who require accommodation for classroom or laboratory performance due to a disability must notify the Registrar in writing upon admission to the program or at the time that such need is identified, and provide required supporting documentation signed by an appropriately qualified health care provider.
3. Accommodations provided by CMCC and agreed to by the student may not be used as a basis for an Academic Appeal.
4. Difficulties related to disabilities that have not been previously identified to the Registrar will not be allowed to be used as a basis for Academic Appeal.
5. The Registrar is the sole custodian of personal information related to a student's request for accommodation and associated supporting documentation.

Third Party Access to Student Information

1. Access to applicant or student information by a third party is prohibited except where signed consent from the applicant or student is provided, or as required by law.
2. A third party who has received signed authority on behalf of an applicant and/or student may only advocate on behalf of the student in the presence of that student.
3. The signed consent will allow for access to information but cannot authorize the delegation by the applicant and/or student to make decisions on his/her own behalf by any other party.

Graduate Education and Research Programs

Telephone: 416 482 2340 ext. 246

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Dean, Graduate Education and Research

John J. Triano, BSc, DC, MA, PhD

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Director, Neurophysiology Laboratory

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Graduate Studies

Telephone: 416 482 2340 ext. 246 Fax: 416 482 2560 Email: gradstudies@cmcc.ca

Director

Paula J. Stern, BSc, DC, FCCS(C)

Introduction

The Division of Graduate Studies provides an advanced program of study emphasizing excellence in clinical skills, research, teaching, learning and leadership. The program values rigour and innovation, critical thinking, service, professionalism and lifelong learning. Our world class faculty foster a culture that is supportive, collegial, interactive, respectful and who celebrate success.

CMCC currently offers two postgraduate programs:

- Chiropractic Residency programs — postgraduate academic programs where diagnostic and clinical skills developed at the undergraduate level are further enhanced through external clinical and research practica. Upon graduation and completion of respective chiropractic specialty colleges' written requirements, students are eligible to write Fellowship examinations set by their respective chiropractic specialty college.
- Work Disability Prevention Program — a contemporary postgraduate certificate program aimed at educating health professionals to appropriately coordinate processes for the effective return of the disabled worker to the workplace.

In cooperation with the Anglo-European College of Chiropractic, CMCC offers eligible health care professionals access to apply to a program leading to a Master of Science, Advanced Professional Practice degree validated by Bournemouth University, UK.

Chiropractic Residency Programs

CMCC offers resident based postgraduate programs in three specialty areas: Clinical Sciences, Diagnostic Imaging and Sports Sciences. Graduates are eligible to write fellowship examinations set by their respective specialty colleges: the College of Chiropractic Sciences (Canada); the Royal College of Chiropractic Sports Sciences (Canada); and, in the case of Diagnostic Imaging, the diplomate examinations of the American Chiropractic Board of Radiology (ACBR), results of which are accepted by the Chiropractic College of Radiologists (Canada) Inc. The Clinical Sciences and Sports Sciences programs may be taken on a full time or part time basis.

The CMCC Graduate Studies diploma does not give the graduate the right to practice as a chiropractic specialist. Achievement of fellowship status may be obtained by fulfilling the qualifications required by the appropriate specialty college, at which time the right to specialty practice may be conferred.

The chiropractic residency programs combine both practical and theoretical aspects of clinical practice by offering placements supervised by specialists from chiropractic and other health care professions, offering exposure to an advanced mix of clinical experiences. Emphasis is placed on practical skill development, research and teaching, both on site and through collaborative arrangements with other health care and laboratory facilities.

A common core curriculum underpins the residency programs, which then diverges to emphasize courses specific to the respective specialty (Clinical Sciences, Sports Sciences or Diagnostic Imaging). Practica span the core disciplines of teaching, patient management, consulting, and research involving interprofessional collaboration with other health care clinicians and scientists.

In addition to the core curriculum and practica, graduate students must complete several written requirements, which are due to the Director by March 30 in order to convocate in June of the same year. The written requirements include a literature review and a research thesis which must be of publishable quality and approved by the graduate student's faculty research mentor and the Program Coordinator.

The residency programs specify a period of residence during which the student is expected to participate in on-campus activities. While not attending external clinical practica, each graduate student can expect to be engaged in structured programs up to 40 hours per week. Courses may be scheduled between 7:00 a.m. and 8:00 p.m., and will vary by the time of year and course load.

Exit Competencies

Upon successful completion of the Graduate Studies Chiropractic Residency programs, students will be able to demonstrate:

Knowledge

- Generate new and/or advance clinical knowledge in their field of expertise
- Integrate in depth knowledge of key program areas in clinical and academic applications
- Demonstrate lifelong learning attributes in professional practice to remain at the forefront of their discipline
- Self reflect in a critical manner in order to identify what is known and not known

Scholarship

- Translate complex scholarly ideas for health care stakeholders
- Contribute to a body of knowledge through conducting research to address a new question, specific problem or related professional issue
- Mount a sustained scholarly argument employing a command of scholarship

Leadership

- Engage in their specialized field and the chiropractic profession with intellectual and professional authority
- Assume a leadership role within the context of the profession

- Differentiate their role within the broader context of related health care professions
- Advocate health and ethical practice

Skilled Performance

- Apply diagnostic and therapeutic skills successfully in complex clinical situations
- Synthesize information efficiently to problem solve clinical situations
- Adapt to unique professional environments such as clinical, community liaison, professional associations, interprofessional collaboration, consulting and expert witness
- Apply principles of reflective practice including reflecting critically in action and on action in order to modify performance
- Manage health issues by coordinating related activities at the micro, meso, and macro levels
- Modify assessments and treatments in a creative, informed and innovative manner when appropriate

Communication

- Communicate in an expert and authentic manner
- Represent their profession and perform procedures with authority and skill
- Educate others in and about their professional field
- Collaborate effectively with other health professions
- Communicate effectively in different media

Chiropractic Residency Program Presentation and Assessment

Varied learning formats are utilized including self directed and problem based learning, small group discussions, lectures, graduate rounds, and active clinical and research participation.

CMCC utilizes a learning management system (LMS) to support the web facilitation of content in each course. Web resources and technologies are used to complement face to face sessions. In addition, some courses may be offered in a hybrid or online format. Hybrid courses blend elearning with face to face delivery. In a hybrid course, substantial parts of the content are delivered online and discussions, team projects and activities are used to augment learning. Online delivery includes courses in which all or almost all of the content is web based with few if any face to face meetings. Delivery methods include multimedia, video conferencing, social networking and the use of learning objects.

Regardless of the delivery format, each course has its own site on the LMS on which faculty post syllabi, readings, assignments, relevant course activities and other resources. In addition, students can use the LMS to track their academic progress over the year.

Students can use computers in the Library or their own personal computer, laptop, tablet or web-enabled personal device to access the LMS, which CMCC has branded "KIRO".

An orientation to the LMS is provided to all Year 1 students. Basic technological skills are required to access the LMS, download course materials, and complete learning modules in hybrid and online courses. Familiarity with Microsoft Office software including Word, PowerPoint and Excel is also needed.

Chiropractic Residency Programs — Curricula

Core Curricula		
Course #	Course Name	Hours
GS 500	Searching, Critically Appraising and Using the Health Care Literature	18
GS 501	Research Methodology and Biostatistics	72
GS 502	Teaching Methodology and Learning Theory	54
GS 503	Advanced Issues in Pain and Chiropractic Management	54
GS 504	Advanced Legal Issues in Health Care	18
GS 505	Graduate Student Rounds	54
GS 507	Injury Biomechanics – Mechanisms of Injury, Repair and Rehabilitation	36
GS 605	Advanced Graduate Student Rounds	54
GS 606	Regional Plain Film Analysis and Advanced Imaging	54

Additional Specialty Curricula – Clinical Sciences		
Course #	Course Name	Hours
CS 520	Special Topics in Clinical Chiropractic	36
SS 521	Clinical and Sports Nutrition (elective)	36
SS 522	Sports Psychology (elective)	18
CS 620	Special Topics in Clinical Chiropractic	36

Additional Specialty Curricula – Diagnostic Imaging		
Course #	Course Name	Hours
DI 521	Principles of Diagnostic Imaging and Radiation Health	18
DI 522	Diagnostic Imaging Interpretation of Normal Anatomy, Skeletal Anomalies, Variants, and Dysplasias	54
DI 523	Physical Injury of the MSK System	36
DI 524	Tumours and Tumour-Like Bone Disorders	54
DI 525	Infectious Disorders of Bone	18
DI 526	Metabolic, Endocrine, and Nutritional Disorders of Bone	36
DI 527	Hematopoietic Disorders of Bone	36
DI 528	Articular Disorders	36
DI 621	Magnetic Resonance Imaging of the Musculoskeletal System	72
DI 622	Chest Imaging	72
DI 623	Abdominal Imaging – Gastrointestinal System	36
DI 624	Abdominal Imaging – Genitourinary System	36

Additional Specialty Curricula – Diagnostic Imaging		
Course #	Course Name	Hours
DI 721	Neuroimaging – Spine	} 90*
DI 722	Neuroimaging – Skull and Brain	
DI 723	Neuroimaging – Head and Neck	

*Total combined hours for Year 3

Additional Specialty Curricula – Sports Sciences		
Course #	Course Name	Hours
SS 520	Special Topics in Sports Chiropractic	54
SS 521	Clinical and Sports Nutrition	36
SS 522	Sports Psychology	18
SS 620	Special Topics in Sports Chiropractic	54

Work Disability Prevention Program

CMCC offers a contemporary postgraduate program in Work Disability Prevention aimed at educating health professionals to appropriately coordinate processes for the effective return of the disabled worker to the workplace.

Work disability developed in workers following various accidents or disorders, work related or not, is a huge burden for workers and their families, employers and society. Prolonged work disability deprives a worker of a major social role, his/her source of income and sense of pride and accomplishment. It is associated with poor health indicators, loss of quality of life and may lead to poverty and work exclusion. Because of the high cost of work disability, there is a growing demand for Return to Work experts across all industries.

The program is offered at two levels:

- Return to Work Advanced Certificate Program — two years
- Return to Work Advanced Certificate Program offered in conjunction with AECC/ Bournemouth University Advanced Professional Practice Master's Program — three years.

This postgraduate certificate program has been developed from the modern framework of the work disability paradigm: Work disability is a complex issue, triggered by an accident or a disorder, but mainly determined by multiple causes linked to the worker, the workplace, the safety net system, the health care system, and cultural and legal issues. Scientific knowledge in this field has progressed considerably in the past 20 years and is poised to alter present day practices. Coordination of the key systems within the Work Disability paradigm requires specific skills and competencies in order to help a work disabled patient/worker navigate these systems and ensure a safe and sustainable return to work.

Completion of this program will enable health professionals and Master's level social workers to hold positions as Return to Work experts, working closely with employers, public and private insurers or in independent practice.

Graduates of the Work Disability Prevention program will facilitate safe and sustainable return to work (RTW) processes for individuals having work disabilities.

Upon successful completion of this program, students will be able to demonstrate the ability to:

1. **Aggregate** current knowledge of the work disability paradigm and the main societal systems influencing RTW processes, including the worker, workplace, health, insurance and legislative networks.
2. **Evaluate** the worker's overall health, work readiness and work demands within the context of the workplace and various stakeholders involved.
3. **Devise** an effective RTW strategy that fosters mutual understanding and integrates information from key stakeholders, the environment and applicable regulations.
4. **Monitor** the implementation, evaluation and revision (as required) of a realistic RTW program in collaboration with the worker, the workplace and other key stakeholders.
5. **Build** collaborative relationships with and between all involved parties/key stakeholders.
6. **Resolve** obstacles in a fair manner through negotiation with stakeholders for an appropriate RTW solution.
7. **Behave** in a consistently professional and ethical manner that respects all parties.
8. **Communicate** effectively verbally, nonverbally and technologically.
9. **Maintain** cultural authority in the work disability field through ongoing professional development including the review of applicable literature and current research.

WDPP Curriculum

	Course Code	Course Name	Certificate Course Hours	Certificate + MSc* Course Hours
Year 1	WD 501	Work Disability Prevention Paradigm	36	36
	WD 502	Making a Work Disability Diagnosis	36	36
Year 2	WD 601	The Stakeholders' Systems	36	36
	WD 602	Coordinating Return to Work	36	36
	WD 603	Practicum	252	252
Year 3	WD 701	Project/Thesis	n/a	Monthly meetings with supervisor

*There are mandatory requirements for the AECC/Bournemouth University Master's Program.

For further details, refer to www.aecc.ac.uk/cpd/postgrad/app-clinical.aspx.

AECC/Bournemouth University Master's Program

Eligible health care professionals can apply to the Master of Science, Advanced Professional Practice (Clinical Sciences) program of the Anglo-European College of Chiropractic (AECC), validated by Bournemouth University, UK, through the CMCC Division of Graduate Studies.

The MSc Advanced Professional Practice (MSc APP) is a program designed to provide an academic framework on which to base professional development in specialized areas of health care practice. The program rests on the theoretical concepts and principles of experiential learning and reflective practice, encouraging the practitioner to use and apply his/her learning opportunities and experiences in the workplace within an academic context.

The MSc APP is a part time, distance program that can be completed in three to five years and consists of three progressive levels: the Postgraduate Certificate, the Postgraduate Diploma, and the MSc degree, all awarded by Bournemouth University.

For more information on this program, please contact the Director of Graduate Studies.

Admission to CMCC's Graduate Studies Programs

Applicants to CMCC's Graduate Studies programs are required to pay a non-refundable fee for the application, which can be completed online at www.cmcc.ca/graduatestudies.

Graduate Programs Application Due Dates

Chiropractic Residency	WDPP Certificate	WDPP Certificate + MSc*
November 15, 2014	June 27, 2015	June 27, 2015

Graduate Programs Application Prerequisites

Chiropractic Residency	WDPP Certificate	WDPP Certificate + MSc*
Degree/diploma from a CCEC accredited chiropractic program, or an agency that is a member of CCEI	Undergraduate university level health professional degree or MSW	Practitioners in professional practice including those with an undergraduate health professional degree

*MSc refers to the Master of Science, Advanced Professional Practice degree offered and awarded by AECC and validated by Bournemouth University, UK.

Graduate Programs Admission Requirements

	Chiropractic Residency	WDPP Certificate	WDPP Certificate + MSc*
Original University and/or Chiropractic College transcript	Yes	Yes	Yes
CGPA	Good academic standing	Good academic standing	3.0
Curriculum Vitae	Yes	No	No
Letters of Reference, in prescribed format	Yes	No	Yes
Letter of intent and letter of good standing	Yes	No	No
Interview for qualified applicants	Yes	No	Yes
Proficiency in English	Yes	Yes	Yes

*MSc refers to the Master of Science, Advanced Professional Practice degree offered and awarded by AECC and validated by Bournemouth University, UK.

Additional Requirements for International Students

English Language Proficiency Requirements

Students for whom English is not a first language will be asked to identify such on their application, and may be required to submit evidence of their proficiency in English by demonstrating:

- Sufficient university level course work in English; and/or
- A minimum score of 88 on the internet based Test of English as a Foreign Language (TOEFL); and/or
- A minimum score of 7.0 on the International English Language Test System (IELTS).

For more information about TOEFL, please visit www.ets.org/toefl (CMCC's institutional code is 8866), and for more information about the IELTS, please visit <http://ielts.org>

Additional Requirements for Students Studying in Foreign Universities and International Students

Immigration Requirements

- Foreign nationals are required to hold and present a valid study permit from Citizenship and Immigration Canada (CIC) in order to register at CMCC. CMCC will retain a copy of the student's study permit, for the duration of his/her academic program, subject to institutional requirements as determined by CIC. More information is available at www.cmcc.ca/international.

Transcripts and Documentation

- Transcripts from institutions outside of Canada must be evaluated on a course by course basis by World Education Services, Inc (WES). This is the only agency from whom CMCC will accept foreign transcript evaluations.

- Applicants must set up an account with WES, designating CMCC as a recipient. Official copies of transcript evaluations must be forwarded directly by WES to CMCC. For more information, please contact World Education Services, Inc. www.wes.org/ca.
- Notarized English translations of documents and certified true photocopies of the originals of all documents that are in a language other than English must be provided at the time of application.

Health Insurance

- International students who are not residents of Canada must enroll in the personal health insurance plans offered by Students' Council at the time of registration.

2014–2015 Program Fees

Program	Annual Tuition	Students' Council Health & Dental Plan		Total Annual Fees	
		Canadian Students	International Students*	Canadian Students	International Students
Chiropractic Residencies	\$5,375	\$400	\$977	\$5,775	\$6,352
WDPP Certificate – Year 1	\$2,658	–	\$977	\$2,658	\$3,635
WDPP Certificate – Year 2	\$3,986	–	\$977	\$3,986	\$4,963
WDPP Certificate – Year 3	\$1,329	–	\$977	\$1,329	\$2,306

All fees are subject to change and subject to an annual increase.

*The Students' Council Health & Dental Plan is mandatory for graduate students attending CMCC on a Study Permit.

2014–2015 Fee Payment Due Dates

	Chiropractic Residencies		WDPP Certificate		WDPP Certificate + MSc*		Due Dates
	Canadian Students	International Students	Canadian Students	International Students	Canadian Students	International Students	
Year 1	\$500 ¹	\$500 ¹	–	–	–	–	March 6, 2014
	\$2,593	\$3,170	\$1,329	\$2,306	\$1,329	\$2,306	August 8, 2014
	\$2,682	\$2,682	\$1,329	\$1,329	\$1,329	\$1,329	January 16, 2015
Year 2	\$3,093	\$3,670	\$2,657	\$3,634	\$2,657	\$3,634	August 8, 2014
	\$2,682	\$2,682	\$1,329	\$1,329	\$1,329	\$1,329	January 16, 2015
Year 3	\$3,093	\$3,670	–	n/a	\$1,329	\$2,306	August 8, 2014
	\$2,682	\$2,682	–	n/a	–	–	January 16, 2015

* Fees are for certificate program only and do not include the costs of the MSc offered by Bournemouth University.

¹ \$500 Acceptance fee is non-refundable and credited toward first year tuition.

Students' Council Health & Dental Plan

All full-time Canadian chiropractic residency program students are charged a fee for the Students' Council Health & Dental Plan. The plan provides coverage for 12 months, from September 1 through August 31. If a student is already covered by an equivalent extended health and dental plan, he/she may opt out of the Students' Council Health & Dental Plan online, during the Change-of-Coverage Period. The Plan also provides the option to enrol a spouse and/or dependants at additional cost.

For more information, call 1 877 795 4422 or visit ihaveaplan.ca.

International Student Insurance

International students attending CMCC on a Study Permit are required to carry health insurance arranged through CMCC and the Students' Council. This insurance is mandatory unless the student is able to provide evidence of coverage under a Canadian provincial health plan, and an equivalent extended health plan. This plan provides coverage for 12 months, from August 1 to July 31. More information about student health insurance for International Students is available by contacting the Division of Student Services.

Late Payment

- An interest charge will be applied to all overdue balances and will be calculated and compounded at a rate of 12% per annum at the end of the business day Friday. The interest rate charged is subject to change without notice.
- Students with tuition fees that are outstanding could be subject to the following: de-registration, denial of future enrolment, withholding of transcripts, and/or termination of library services.
- Students will not receive their final grades or transcripts or be permitted to graduate until all financial obligations to CMCC have been met.

Withdrawal and Refund Policy

Students who wish to withdraw must notify the Registrar in writing, by registered mail or personal delivery. Notification of withdrawal by telephone will not be accepted. Ceasing to attend classes does not constitute withdrawal. The date of withdrawal will be determined by the date of receipt of notification by the Registrar.

1. A full refund of tuition and related fees that have been collected will be made if a student rescinds the Student Registration Agreement by providing notice to CMCC within two days of signing the Student Registration Agreement as part of annual registration.
2. A full refund of tuition and related fees that have been collected, less an administrative fee of \$500, will be made if:
 - a) the student gives the institution written notice before the program start date that the student does not intend to start the program, or

- b) the student does not give any notice to withdraw from the program before the program start date and does not attend the first 10 consecutive days of the program.
3. A refund of tuition and related fees that have been collected for services not yet provided, less an administrative fee of \$500, is given to the student if:
 - a) he/she gives the institution written notice of intent to withdraw after the program start date but before half of the program has been delivered, or
 - b) the program is discontinued or suspended for any reason.
 4. CMCC calculates the refund of tuition by subtracting the amounts earned by CMCC for services provided, calculated on a monthly basis and rounded to the nearest quarter month, from the tuition fees paid in advance.
 5. If eligible, a refund of the student health care premium will only be made up to September 15. After that, the premium is locked in and the student has coverage for the year.
 6. If a student is dismissed from CMCC for any reason, there will be no refund of fees and any outstanding accounts with CMCC become immediately payable.
 7. If a student is entitled to and has made a demand in writing for a tuition fee refund and CMCC has not paid the amount of the refund within 30 days of the demand, or arranged for the Trustee to pay the amount of the refund within that period, the student may apply to the Trustee to have the refund directly paid to him/her out of the unearned tuition fee held in trust for that student [Post-secondary Education Choice and Excellence Act, 2000 O. Reg. 279/02, s.10 (9)]. The student will be required to present a copy of the Student Registration Agreement in the event he/she makes a claim against the security.

Financial Support for Chiropractic Residency Programs

Bursaries and Fellowship awards are available based on a review of historic academic/professional performance, meeting specific award/bursary criteria, and continued achievement in the program. Graduate students enrolled in the chiropractic residency programs receive complimentary membership in CMCC.

The Division of Graduate Studies provides funds for professional development for graduate students, including attendance at seminars, conferences and workshops that are directly relevant to their CMCC experience. These activities must be discussed in detail with the student's coordinator and approved by the Director of Graduate Studies prior to the event and are limited by available budget.

Awards, Scholarships and Bursaries

Admission Bursary for CMCC Chiropractic Residency Programs

Eligibility: Full time graduate students in Years 1, 2 and 3

An Admission Bursary will be offered to the five top applicants to the chiropractic residency programs in Year 1. The bursary is renewable for each year of graduate study at CMCC based on annual review of academic performance, participation and meeting the specified criteria.

Fellowship Award for CMCC Chiropractic Residency Programs

Eligibility: Full time graduate students in the residency programs in Years 1, 2 and 3
A Fellowship Award will be awarded to the five top full time applicants each year. The award is renewable for each year of graduate study at CMCC based on annual review of academic performance and participation. Satisfactory completion in the following criteria categories is necessary to maintain the award: full time student status, class attendance, minimum GPA, flexible teaching assignments and participation in a CMCC assigned six month core placement.

CMCC Research Fellowship Award

Eligibility: Non-funded full time graduate students enrolled in a chiropractic residency program
The Division of Graduate Studies will award up to three Research Fellowship Awards annually to graduate students under the supervision of a faculty researcher. The award is open to those graduate students enrolled in a full time residency program who are not otherwise eligible for a fellowship award or admission bursary. Application deadline is December 15.

Kirkaldy-Willis Memorial Award

This scholarship, honouring the memory of Dr. William Hay Kirkaldy-Willis, a great friend to chiropractic and supporter of research, graduate education and interdisciplinary collaboration, was established by CMCC. The Dean of Graduate Education and Research and the Director of Graduate Studies select a CMCC graduate student who has completed his/her program of study and has demonstrated leadership and creative initiative in the promotion of interdisciplinary research.

Graduate Studies Policies

Code of Conduct

Just as CMCC maintains high standards of academic performance, its students, faculty and staff are expected to maintain high standards of conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions of academic and personal freedom. CMCC retains the right to ensure that graduate students present themselves in a professional manner, both in conduct and appearance. Disciplinary procedures are initiated when a graduate student fails to exercise responsibility adequately, commits an offence against CMCC standards, regulatory standards, or is in violation of local, provincial or federal law.

Transfer between Residency Programs

Occasionally a graduate student in the chiropractic residency programs may elect to change his/her area of specialty. Application for transfer must be made no later than six months into the first year of studies. Graduate students may be required to fulfil additional requirements (course work, practica and/or written requirements) as determined by the needs of the new program. Each specific case will be assessed and the decision to grant a transfer will be made by the Dean of Graduate Education and Research on the recommendation of the Director of Graduate Studies.

Program Leave of Absence

Under extenuating circumstances, as determined by the Dean of Graduate Education and Research and the Director of Graduate Studies, a graduate student may be granted a leave of absence for personal or health related reasons. Any bursary/award owing to the graduate student for scholarship or research assistantships will be suspended during the period of the absence and be restored based on review of academic performance and on availability of funds when the student returns to the program. The deadline for completion of the graduate program requirements may be extended for a maximum of one year.

Students must make application for such leave by completing the Leave Request Form and submitting it to the Director of Graduate Studies for approval. To ensure her/his place, by January 31 the student must submit a letter of intent to resume the program beginning the subsequent August 1, along with a non-refundable fee of \$500 credited toward tuition. Unexplained or unannounced absenteeism may result in termination from the program.

Graduate Student Grading and Evaluation

Formal grading and evaluation are an integral part of the graduate programs.

Course outlines ensure that graduate students are informed of the procedures and methods by which their performance is evaluated. This information must describe the method(s) of assessment (essays, tests, examinations, seminar presentations, etc.), the contribution of each to the overall grade and the timing of each major evaluation. Any penalties for failure to complete work in a timely manner must be set out in the course outline.

Grading System

Grades are a measure of the performance of a graduate student in individual courses.

Each graduate student shall be judged on the basis of how well he/she has command of course content. Courses for graduate credit are assigned a numerical grade according to the Division of Graduate Studies as follows:

Letter Grade	Percentage	Grade Point
A+	90 to 100	4.00
A	85 to 89	4.00
A-	80 to 84	3.70
B+	77 to 79	3.30
B	73 to 76	3.00
F	0 to 72	0.00
W	Withdrawal	0.00
WF	Withdrawal with Failure	0.00
INC	Incomplete	
AS	Advanced Standing	
PASS	Successful completion of a non-graded course	
FAIL	Unsuccessful completion of a non-graded course	

Passing Grade

The majority of courses are graded with a percentage mark. Unless otherwise noted, the minimum passing grade for any course is 73% (B).

Incomplete

Graduate students who are deficient in any of the requirements for a course will be given the designation "incomplete," rather than a final grade. All "incomplete" grades must be cleared as prescribed in the section describing time limits.

Supplemental Examinations

Graduate students who receive a final grade of greater than or equal to 70% and less than 73% will be eligible to write supplemental examinations. Unless otherwise noted, the minimum passing grade for a supplemental examination in a graduate course is 73%. Graduate students who are not successful in passing their supplemental examination will receive a grade of F for the course.

Consequences of Failure/Unsuccessful Completion of a Graduate Course

The minimum acceptable average that a graduate student must maintain throughout the program (as computed at the end of each program year) is 73%. A graduate student who fails to complete a graduate course must repeat that course. The graduate student must obtain a mark of at least 73% in the repeated or alternate course. The failed or incomplete course and the grade in the repeated or replaced course will both appear on the graduate student's academic record. Any graduate student who accumulates two final grades below 73% may be required to withdraw from the program regardless of their GPA.

Unsatisfactory Performance

Graduate students whose performance is unsatisfactory based on formal and informal evaluations may have their registration terminated at any time on the recommendation of the Director of Graduate Studies.

Appeals Procedures

Where disputes arise between graduate students and administrators, every effort is to be made to resolve the issues informally without resorting to a formal appeal. If, however, a formal appeal is necessary, the student must submit a request, in writing, to the Registrar that an Appeals Committee be established, stating the grounds for the appeal. Students must initiate the appeals process within 15 days of the decision that is being disputed.

Time Limit

The research thesis and literature review must be satisfactorily completed no later than 12 months following the end of the program. Failure to satisfy any of the program requirements on time may result in any of the following:

- a warning
- a notation in the personal record
- termination of enrolment within the program

Under extenuating circumstances, as determined by the Dean of Graduate Education and Research on the recommendation of the Director of Graduate Studies, a graduate student may be offered an extension of the deadline for completion of the graduate program requirements, to a maximum of one year. Application for extension is required at least one month prior to the established deadline. Only one extension may be granted.

Graduation

A candidate for graduation must give satisfactory evidence that he/she has:

- successfully completed all courses
- a minimum cumulative average of 73% over all courses
- completed the required clinical, teaching and other practica (chiropractic residency programs only)
- completed thesis and literature review requirements of the chiropractic residency programs
- discharged all financial obligations and met all other requirements in a timely manner.

Graduate Studies Course Descriptions

Chiropractic Residency Programs – Core Curricula

GS 500: Searching, Critically Appraising and Using the Health Care Literature

Course Instructor: J. Wong

Total hours: 18

The skills to retrieve the most complete set of relevant literature feasible on any given health care topic are developed. This includes a good knowledge of the electronic indices available, their relative advantages/disadvantages (costs, accessibility, relevance to various topics, relative overlap/redundancy), and the formulation of an efficient search strategy.

Efficient management of references using available software and use of search and appraisal skills in assessing literature such as case reports, systematic literature reviews, proposals and original research papers are introduced. Effective and critical appraisal of the health care literature is practiced through formal presentation of critiques and discussion of articles from health care research journals.

GS 501: Research Methodology and Biostatistics

Course Instructor: M. McGregor

Total hours: 72

Research design, sampling, sources of data and data analysis applied to health care research are introduced. Basic statistical tests and variables are discussed. Emphasis is placed on the understanding of the tests to be applied, given specific clinical hypotheses. Simple continuous and discrete variable statistics as well as computer software available for data analysis are introduced. The systematic steps necessary to develop a research project and proposal, apply for a research grant and publish a manuscript are discussed. An understanding of when to use professional statistical expertise is developed.

GS 502: Teaching Methodology and Learning Theory

Course Instructor: L. Howard

Total hours: 54

The fundamental theories and practice of effective teaching and learning are introduced: exploring teacher identity and philosophy; determining characteristics, diversities and learning styles; discussing adult learning theories; exploring approaches to teaching and learning; developing strategies for designing and facilitating learning experiences; and assessing curriculum, student learning and teaching practice. These areas of adult education are examined utilizing self directed learning, critical reflection and experiential learning strategies.

GS 503: Advanced Issues in Pain and Chiropractic Management

Course Instructor: E. Tunks

Total hours: 9 Lecture and 45 Placement

The conceptual understanding of the underlying mechanisms of the sensation of pain, the appropriateness of examination, and the role of chiropractic in the management of specific pain conditions are discussed. Emphasis is placed on common psychological conditions that may be encountered in clinical practice. Coping strategies, interview skills and referral networks are reviewed.

GS 504: Advanced Legal Issues in Health Care

Course Instructor: L. Kantor

Total hours: 18

The responsibilities of the chiropractic specialist as a consultant to various groups are discussed. Methods of examination, report writing, interprofessional skills and the role of the expert witness are reviewed. Specific emphasis is placed on the discussion of the impact of personal injury and malpractice claims. Other issues surrounding consent, ethics and factors in malpractice are discussed.

GS 505: Graduate Student Rounds

Course Instructor: P. Stern

Total hours: 54

The goal of GS 505 is to develop knowledge and understanding of specific clinical conditions and issues, and of presentation skills, and to experience audience questioning. Graduate Student Rounds emphasize conceptual understanding and problem solving as opposed to factual recall, and encourage learning by creating an atmosphere for discussion. Different teaching and lecturing strategies are utilized during rounds, as each student is responsible for the presentation of selected material.

GS 507: Injury Biomechanics — Mechanisms of Injury, Repair and Rehabilitation

Course Instructor: D. Grondin

Total hours: 36

The fundamental knowledge of biomechanics and the biology of repair are brought together to examine the mechanisms of injury, repair and rehabilitation. Problem based learning and small group discussions are used to prepare the student for roles in injury and disability assessment, ergonomic analysis and care administration, which are critical to strategies of prevention and clinical treatment planning.

GS 605: Advanced Graduate Student Rounds

Course Instructor: P. Stern

Total hours: 54

The goal of GS 605 is to develop advanced knowledge and understanding of specific clinical conditions and issues along with improving presentation skills. Advanced Graduate Student Rounds emphasizes a deeper conceptual understanding and enhancement of problem solving skills by the student. Different teaching and lecturing strategies are utilized during rounds, as each student is responsible for the presentation of selected material.

GS 606: Regional Plain Film Analysis and Advanced Imaging

Course Instructor: T. Pringle

Total hours: 54

Advanced radiographic and imaging interpretation of skeletal pathology is emphasized in a problem based format. Imaging characteristics of arthritides, tumours and other disorders are reviewed. The utilization of specific radiographic views and anatomical imaging methods are discussed. Emphasis is on integration of imaging findings, anatomical structures, pathological processes and clinical presentation.

Clinical Sciences — Additional Specialty Curricular Requirements

CS 520: Special Topics in Clinical Chiropractic

Course Instructors: P. Stern and S. Mior

Total hours: 36

An advanced level of knowledge in the assessment and treatment of common clinical conditions and disorders is provided. The course focuses on epidemiology, diagnosis, prognosis, imaging, treatment of conditions seen in clinical practice, as well as outcome measures, and musculoskeletal complaints in the neck and upper extremities.

CS 620: Special Topics in Clinical Chiropractic

Course Instructors: P. Stern and S. Mior

Total hours: 36

An advanced level of knowledge related to clinical practice and current relevant issues, as well as an in depth understanding of current health issues is provided. The course focuses on epidemiology, diagnosis, prognosis, imaging and treatment of conditions seen in clinical practice related to the low back and special populations including musculoskeletal complaints in paediatric and geriatric patients.

Diagnostic Imaging — Additional Specialty Curricular Requirements

DI 521: Principles of Diagnostic Imaging and Radiation Health

Course Instructor: B. Corr

Total hours: 18

Principles of diagnostic imaging and radiation health, including radiograph production and interaction with matter, machine components, intensifying screens and film, as well as digitization equipment and procedures, quality control, radiobiology, principles of radiation protection and radiographic positioning are reviewed. Special procedures are discussed with emphasis on computerized tomography and fluoroscopy. Interactive lecture and lab sessions are used.

DI 522: Diagnostic Imaging Interpretation of Normal Anatomy, Skeletal Anomalies, Variants, and Dysplasias

Course Instructor: N. Dombrowsky

Total hours: 54

The clinical history, physical examination and laboratory features of each condition are discussed and clinical implications emphasized, leading to a list of differential diagnoses and an appropriate plan for patient management including ordering and interpreting appropriate follow-up studies. Interactive lectures, practical case based imaging interpretation, and self directed learning are used.

DI 523: Physical Injury of the Musculoskeletal System

Course Instructor: C. Columbus

Total hours: 36

To further knowledge and understanding of the types of physical injury of the musculoskeletal system, the history, physical examination and laboratory features of each condition are discussed and management implications emphasized. An understanding of the various osseous and articular traumas leads to a list of differential diagnoses and development of an appropriate plan for patient management, including ordering and interpreting appropriate diagnostic imaging studies, including any appropriate special imaging studies. Interactive sessions, case based film reading sessions, and internet based self study assignments are used. Structured, problem solving, self assessment cases are provided bi-weekly.

DI 524: Tumours and Tumour-Like Bone Disorders

Course Instructor: TBA

Total hours: 54

The types of bone tumours and the imaging means of investigating them are presented. The history, physical examination and laboratory features of each condition are incorporated into the sessions, and management implications are emphasized, leading to a list of differential diagnoses and development of appropriate plans for patient management including ordering and interpreting appropriate diagnostic imaging studies. Identifying, describing, and relating the clinical significance of bone tumors, and introducing imaging studies and the steps required for proceeding through an organized rational search pattern are required. Interactive sessions, case based film reading sessions, and internet based self study cases are used.

DI 525: Infectious Disorders of Bone

Course Instructor: M. Wessely

Total hours: 18

The history, physical examination and laboratory features of infectious disorders of bone are incorporated into each session and management implications emphasized, leading to a list of differential diagnoses and development of appropriate plans for patient management including ordering and interpreting appropriate diagnostic imaging studies. Identification, description, relating the clinical significance of infections, how to introduce imaging studies and the steps required for proceeding through an organized rational search pattern are emphasized. Interactive sessions, case based film reading sessions, and internet based self study cases are used.

DI 526: Metabolic, Endocrine, and Nutritional Disorders of Bone

Course Instructor: M. Wessely

Total hours: 36

The types of metabolic, endocrine, nutritional and toxic disorders are discussed along with the imaging means of investigating them. The history, physical examination and laboratory features of each condition are incorporated in each session and management implications are emphasized. Identification, description, and relating the clinical significance of each condition leads to a list of differential diagnoses, and development of appropriate plans for patient management including ordering and interpreting appropriate diagnostic imaging studies. Imaging studies and the steps required for proceeding through an organized rational search pattern are discussed. Interactive synchronous online sessions and case based film reading sessions are used.

DI 527: Hematopoietic Disorders of Bone

Course Instructor: M. Wessely

Total hours: 36

To further knowledge and understanding of hematopoietic bone disorders and the imaging means of investigating them, the history, physical examination and laboratory features of each condition and management implications are discussed. Identification, description, and relating the clinical significance of these disorders, as well as how to introduce imaging studies and the steps required for proceeding through an organized rational search pattern, lead to a list of differential diagnoses, and development of appropriate plans for patient management, including ordering and interpreting appropriate diagnostic imaging studies. Interactive synchronous online sessions and case based film reading sessions are used.

DI 528: Articular Disorders

Course Instructor: TBA

Total hours: 36

To further knowledge and understanding of articular disorders, the history, physical examination and laboratory features of each condition are discussed and management implications are emphasized, leading to a list of differential diagnoses and development of an appropriate plan for patient management including ordering and interpreting appropriate diagnostic imaging studies. Special imaging studies are also discussed. Interactive sessions, case based film reading sessions, and internet based self study assignments are used. Structured, problem solving, self assessment cases are provided bi-weekly.

DI 621: Magnetic Resonance Imaging of the Musculoskeletal System

Course Instructor: TBA

Total hours: 72

Advanced knowledge and understanding of Magnetic Resonance Imaging (MRI) of the musculoskeletal system are developed through the introduction of MRI studies and the steps required for proceeding through an organized rational search pattern. An understanding of the normal anatomy and associated regional conditions leads to the development of a list of differential diagnoses and an appropriate plan for patient management including ordering and interpreting appropriate diagnostic imaging studies. The history, physical examination and laboratory features of each condition are incorporated and management implications emphasized. Interactive sessions, case based film reading sessions, and internet based self study cases are used.

DI 622: Chest Imaging

Course Instructor: TBA

Total hours: 72

The history, physical examination and laboratory features of various types of chest diseases and the different imaging means of investigating associated with each condition are discussed, including emphasis on management implications. An understanding of the various chest and lung disorders facilitates a list of differential diagnoses and the development of an appropriate plan for patient management including ordering and interpreting appropriate diagnostic imaging studies. The identification, description and relating of the clinical significance of chest diseases and the introduction of imaging studies and the steps required for proceeding through an organized rational search pattern are taught. Further expertise that will inform teaching is developed. Interactive sessions, case based film reading sessions, and internet based self study cases are used.

DI 623: Abdominal Imaging – Gastrointestinal System

Course Instructor: TBA

Total hours: 36

Imaging focusing on the gastrointestinal system includes plain film and additional studies for the esophagus, stomach, duodenum, small intestine, colon and rectum. Interactive and case based film reading sessions are used and internet based structured, problem solving, self assessment cases are provided weekly.

DI 624: Abdominal/Pelvic Imaging – Urogenital System

Course Instructor: TBA

Total hours: 36

Expertise in methods of examining the urogenital system including the kidneys and ureter, bladder, urethra and reproductive system is developed. Interactive and case based film reading sessions are used and internet based structured, problem solving, self assessment cases are provided weekly.

DI 721: Neuroimaging – Spine**DI 722: Neuroimaging – Skull and Brain****DI 723: Neuroimaging – Head and Neck**

Course Instructor(s): TBA

Total hours: 90

Year 3 of the Diagnostic Imaging graduate studies program focuses on developing expertise in neuroimaging of the spine, skull, brain, head and neck.

Sports Sciences — Additional Specialty Curricular Requirements

SS 520: Special Topics in Sports Chiropractic

Course Instructor: M. Kazemi

Total hours: 54

Foundation knowledge and skills to assess, treat and manage the high performance, gifted, recreational, and challenged athlete are provided. The course focuses on the physiology of connective tissue healing, emergency care, regional physical assessments and examinations. Taping techniques and utilization of various braces for different body parts are reviewed in a workshop setting.

SS 521: Clinical and Sports Nutrition

Course Instructor: L. Greib

Total hours: 36

Topics are presented which are relevant to general chiropractic practice, such as osteoarthritis and osteoporosis, as well as the impact of these conditions on elite athletes. An emphasis is placed on sports nutrition, which focuses on the general nutritional considerations and current trends in supplementation for the elite athlete. This will include preparation for competition, pre-season and post-season. Other topics will include sports nutrition and supplementation in special areas such as anorexia, bulimia and weight management.

SS 522: Sports Psychology

Course Instructor: J. Goss

Total hours: 18

This course involves understanding the psychology of the management of injury and recovery, career transition and burnout, athlete confidentiality and service provider responsibility.

SS 620: Special Topics in Sports Chiropractic

Course Instructor: M. Kazemi

Total hours: 54

Advanced knowledge and skills to assess, treat and manage the high performance, gifted, recreational, and challenged athlete are expected. This course emphasizes fitness and pre-participation testing, sports injuries in children, female and disabled athletes, environmental effects on exercise, dermatological and other medical considerations in athletes, ergogenic aids and sport biomechanics.

Work Disability Prevention Curriculum

WD 501: Work Disability Prevention Paradigm

Course Instructor: P. Loisel

Total hours: 36

The Work Disability Prevention (WDP) paradigm and the real meaning of disabling pain are introduced. The nature, epidemiology and costs related to the WDP paradigm are presented. A case study allows students to grasp the complexity and social dimensions of this paradigm and how it may affect patients/workers in their personal, social and working life. This case study introduces the current conceptual frameworks of work disability. Meaning and value of work are presented. The complexity of the pain problem is introduced through current knowledge on biological, psychological and social dimensions and their interrelations in the pain problem, and to basic knowledge on pain management strategies.

WD 502: Making a Work Disability Diagnosis

Course Instructor: P. Loisel

Total hours: 36

The various causes of work disability and how to make a Work Disability Diagnosis are presented. The flags system and the tools facilitating the completion of such a disability diagnosis with regard to the workplace, insurance and health care systems are explored, as are the psychology of work disability and its behavioural consequences. Legal and ethical issues related to work disability with respect to the origin or nature of the disorder and the jurisdiction are appraised. Patient orientation in order to allow a quick, safe and sustainable return to work is introduced.

WD 601: The Stakeholders' Systems

Course Instructor: F. O'Hagan

Total hours: 36

The workplace is explored including its various components and dimensions: the employer, including upper management and human resources; line managers and supervisors; the workers and the unions. Basic rehabilitation ergonomics, working relationships and the different aspects of the social safety net are introduced. Scientific data on effectiveness of workplace interventions for return to work and issues about Workers Compensation Board and public and private insurance companies are presented. The positive and negative influences of health care provider systems on a patient's recovery and behaviour are emphasized.

WD 602: Coordinating Return to Work

Course Instructor: F. O'Hagan

Total hours: 36

The influences of the different systems involved in work disability on a patient's thoughts and behaviours are identified and synthesized. Case coordination for helping the patient/worker navigate the system with the perspective of a safe and sustainable return to work is explored. Strategic planning and negotiation techniques are developed to improve case management skills. Students also monitor a case through its resolution.

WD 603: Practicum

Course Instructor: F. O'Hagan

Total hours: 252

Return to work experience training is gained with a return to work specialist at a designated worksite. Students follow cases at various stages of the work reintegration process. Specific skills will be developed in assessing the work disability situation, developing return to work plans, monitoring the return to work, and evaluating return to work programs. Students spend two days per week for four months in a work disability placement.

WD 701: Project/Thesis

Coordinator: Approved Research Supervisor

Students identify a topic of interest in the field of work disability management and prevention and, in consultation with a faculty supervisor and committee, develop a research proposal along with completion of data capture, analysis and a report.

External Clinical and Research Practica for Chiropractic Residency Programs

The graduate student's diagnostic and treatment skills are further developed at specialized external clinical rotations. Multidisciplinary interactions are incorporated into the programs and each program has mandatory and optional practica consistent with the specialty program. As well, each graduate student who receives a Fellowship award is required to participate in a placement treating patients in an outpatient hospital clinic or alternate facility, as deemed appropriate by the Director, Dean, and Program Coordinator. Opportunities may be offered to other graduate students, based on availability. Graduate students are to check directly with the Director for the appropriate practicum. The following placements are currently available:

1. Back To Function

Sports Sciences graduate students spend one day per week for up to eight weeks working with elite athletes at a clinic in Orillia, Ontario. This is a practical rotation involving assessment, treatment and rehabilitation.

2. Chronic Pain Placement at Hamilton General Hospital in the Regional Rehabilitation Centre

Under the supervision of Dr. Tunks, the graduate student will observe the assessment and follow up of chronic pain patients and be involved in case based discussions. The students will gain invaluable insight into the complex clinical puzzle of chronic pain. This rotation is two days per week for two weeks.

3. Chronic Pain Placement at Toronto Western Hospital

Under the supervision of Dr. Mailis, students will attend patient admission, pain rounds and outpatient clinics. Students will be exposed to a variety of pain patients suffering from various problems such as nociceptive, neuropathic, mixed and psychologically/psychiatrically based pain. Emphasis will be placed on physical examination and behavioural observations to aid in plan of management and possible prognostication. This placement is four full days.

4. Hamilton General Hospital

Clinical Sciences graduate students spend two days per week for six months in the Neuroscience Ambulatory Clinic, Fracture Clinic, and Operating Room within the hospital interacting with orthopaedic surgeons, medical residents and patients.

5. Husky Injection Molding Systems

CMCC graduate students provide chiropractic treatment three days per week for six months to employees in Husky's onsite multidisciplinary wellness centre. Patients present with a variety of symptoms related to workplace ergonomic factors. The students are also involved in ergonomic assessments of the workplace and wellness seminars for the employees, and thus obtain a multidimensional view of the aetiology, management and prevention of workplace injuries.

6. **Mt. Sinai Hospital**
CMCC graduate students spend two days per week for three months at the hospital. One day per week involves provision of chiropractic treatment under the supervision/mentorship of a chiropractor. One day per week involves observational clinic placements with medical specialists such as rheumatologists and orthopaedic surgeons, attendance at hospital rounds and interprofessional education opportunities.
7. **St. Michael's Hospital**
CMCC graduate students spend three days per week for six months at the hospital, providing chiropractic treatment two days per week in the Department of Family and Community Medicine for patients referred from the Academic Family Health Team. One day a week involves observational clinic placements with orthopaedic surgeons or family physicians in the hospital, review of patient cases with a Chiropractic Fellow and involvement in interprofessional education rounds.
8. **Taekwondo**
Sports Sciences graduate students spend several weekends attending elite taekwondo tournaments. This is a practical rotation involving assessments, treatments and rehabilitation of competitors, under the supervision of Sports Fellows.
9. **University of Calgary**
Graduate students have the opportunity to spend six months collaborating on research in the Human Performance Laboratory (Kinesiology) at the University of Calgary and being involved in patient care at local clinics.

In addition to the above placements, CMCC has placements with several other facilities, which aid in expanding the educational knowledge of the graduate students. These opportunities include the following practica:

- observational and collaborative experience reading plain film and advanced images with a musculoskeletal radiologist
- observation and assessment of patients with various orthopaedic surgeons

Teaching Assistant Opportunities

Graduate students may work as teaching assistants at CMCC. Combined contact hours per week vary throughout the programs depending upon the course and practica loads.

Teaching Assistant opportunities are posted on the CMCC website (www.cmcc.ca).

Research Assistant Opportunities

Graduate students may work as research assistants under the direction of a faculty researcher and/or in one of the CMCC Research Centres: The Centre for Interprofessional Health Dynamics, the Centre for the Study of Mechanobiology, Injury and Health, or the UOIT-CMCC Centre for the Study of Disability Prevention and Rehabilitation.

Research Assistant opportunities are posted on the CMCC website (www.cmcc.ca).

Research

Dean, Graduate Education and Research

John J. Triano, BSc, DC, MA, PhD

The Graduate Education and Research Program at CMCC is a growing and vibrant culture focused on expanding the knowledge base for the care of patients suffering from musculoskeletal disorders, particularly of the spine. Restructured over the past five years with a mission to expand CMCC's research presence, the program has consolidated its directions to address four research domains — mechanobiology, health resources, disability prevention and clinical trials — through both virtual and physical academic centres. While faculty members in both the Undergraduate and Graduate Programs each have their primary areas of interest, often they may be involved in projects addressing more than one of these domains.

The Centre for the Study of Mechanobiology, Injury and Health

Projects within the Centre for the Study of Mechanobiology, Injury and Health are actively pursuing the influence of mechanical forces applied and transmitted through the human body while performing daily activity, work and sports as well as syndromes developed upon injury to one or more musculoskeletal components.

The understanding of the nature of the interaction between the joint and related structures of bone, cartilage, ligaments, discs, tendons, muscles and neural components is of paramount interest to sound clinical practice, as it allows optimal design of treatment strategies for pain management, rehabilitation, exercise and lifestyle change.

The primary goal of the Centre is to focus on mechanobiology, developing scientific foundations that explain how human disorders are caused by or manifest in changes in the body from mechanical forces.

To this end, the McMorland Family Research Chair in Mechanobiology was established in 2007 to conduct studies that will clarify:

- how movement and posture are controlled to help prevent pain
- how control becomes maladaptive, promoting chronic pain and degenerative disease
- how healthy control mechanics can be restored to ease chronic pain and restore comfort and productivity for work and for family life

The first independent chiropractic institution to establish and fund its own research chair position, CMCC is committed to provide a foundational, unique body of knowledge that reaffirms chiropractic's cultural authority in the field of spinal health care.

The Centre for Interprofessional Health Dynamics

Projects within the Centre for Interprofessional Health Dynamics evaluate interprofessional care and collaboration and its impact on public health, health policy and chiropractic practice. Health policy and systems dynamics researchers study the role of chiropractic in total health care, and how integrated health care can benefit patients and society, improving patient access to care, quality and comprehensiveness of care, and making more effective use of resources.

Understanding of the interactions among health professionals as they relate to care administration and patient outcomes is the foundation for sound health policy that seeks to direct the right care, to the right patient, in the right amount, at the right cost.

Led by internationally known faculty, the Centre has launched an initiative in Work Disability, addressing work absenteeism originating from any disorder or accident. This topic has become of primary importance due to this growing health issue and compensation costs involved. Recent research shows that work is generally good for health and work deprivation is harmful.

The UOIT-CMCC Centre for the Study of Disability Prevention and Rehabilitation

The UOIT-CMCC Centre for the Study of Disability Prevention and Rehabilitation is a multidisciplinary research program operated jointly by the University of Ontario Institute of Technology (UOIT) and CMCC and is located on the CMCC campus. The Centre is dedicated to reducing the impact of disability on individuals and society.

The goals of the Centre are to:

1. define best practices for the prevention and rehabilitation of disability
2. provide a reliable source of information related to the prevention and rehabilitation of disability
3. generate new knowledge through the conduct of high quality quantitative and qualitative research
4. produce scientific information to help health care professionals and patients make evidence informed decisions about health care
5. contribute to policy development through knowledge transfer and exchange with stakeholders.

The Centre currently includes 12 scientific staff and collaborators from the University of Toronto, University of Alberta, University of Southern Denmark, New York University, the Toronto Health Economics and Technology Assessment (THETA) Collaborative, CMCC and UOIT.

Clinical Trials

Clinical trials arise from activities in all three Centres. Investigators, under guidance of Canadian Tri-Council policy, conduct sequential and parallel studies using both pragmatic and fastidious designs to evaluate the benefits of both existing and novel treatment approaches. The patient is the end user of health care. CMCC clinical research is driven to achieve greater patient satisfaction and improved quality of life.

Collaborations

Historically, CMCC has leveraged its research efforts through strong collaborations. Despite the recent emphasis for a strong campus based laboratory system, the sense of value attributed to productive scientific collaborations continues to grow. Currently, CMCC faculty are engaged collaboratively with researchers internationally involving National Institutes of Health, Canadian Institutes of Health Research and foundation support. Collaborating researchers are from:

- Columbia University
- Fudan University, Shanghai
- McMaster University
- National University of Health Sciences
- Newcastle University, Australia
- New York Chiropractic College
- Palmer College of Chiropractic
- Rush Medical College
- University of Alberta
- University of Birmingham, England
- University of Guelph
- University of Miami
- University of Ontario Institute of Technology
- University of Rochester
- University of Southern Denmark
- University of Toronto
- University of Vermont

Continuing Education

Telephone: 416 482 2340 ext. 191 Fax: 416 482 1696 Email: ce@cmcc.ca

Director

Greg Roberts

Introduction

The Division of Continuing Education (CE) develops and delivers a broad range of custom education to chiropractors and other licensed health care practitioners. These programs range from live practical sessions held at CMCC and other locations across North America to distance learning delivered via the Internet. The subjects are varied and developed in response to the professional needs of practitioners and their patients.

Seminar Planning Services

Individuals or groups who wish to organize continuing education courses in their geographical vicinity are encouraged to contact the Director of Continuing Education to discuss the requirements and possible logistics for delivery of the program.

Courses for Undergraduate Students

CE has been developed to support the lifelong learning of graduate chiropractors. However, in cooperation with CMCC's Students' Council, the Division of Continuing Education occasionally offers courses specifically for chiropractic students.

Admission and Scholastic Regulations

The Division's policy for admission to seminars and courses is equitable and non-discriminatory. Prerequisite qualifications vary depending on the program but in all cases are clearly set out in the initial program announcements and are checked at the time of registration. Certificates of attendance or completion for continuing education programs are issued only after full compliance with all requirements for attendance, examinations and tuition. Fees vary according to program type and duration.

Course and Contact Information

For full descriptions of current and future programs, dates, locations and registration information, contact CE at 416 482 2340 ext. 191, ce@cmcc.ca, or visit www.cmcc.ca/ce.

Featured Educational Programs

CE offers four categories of educational programs: Seminars, Fellowship Eligible Programs, Certificate Programs and Distance Education.

Seminars

In cooperation with chiropractic associations across Canada, CE develops and stages courses that pertain to individual provincial regulatory board requirements.

CMCC Symposium: Conference on Advancements in Chiropractic

The conference, held every two years, is based on a current and relevant theme and provides the chiropractic and health professional community with leading research presentations from top international clinical and basic science researchers. Attracting health professional delegates from all regions of Canada as well as internationally, this conference challenges the diagnostic and management skills of all chiropractors through an interactive format typically presided over by a panel of distinguished clinical professionals and scientists.

Homecoming

CMCC encourages alumni, students, staff and friends to attend a special weekend of social events and an educational program in June. CE provides the educational component of CMCC's annual Homecoming through sessions focusing on relevant issues facing practising chiropractors.

Fellowship Eligible Programs

Chiropractic Rehabilitation Fellowship Eligible Program

This comprehensive multiyear program enables chiropractors to engage in rehabilitation healthcare services. Continuing Education, in association with the Canadian Chiropractic Specialty College of Physical and Occupational Rehabilitation (CCPOR), has fully redesigned the fellowship curriculum which was approved by the CCPOR in 2014.

This program will be available to:

1. practitioners who apply to the CCPOR to enter the full multi-year program and are admitted following an admissions process as described below
2. practitioners who have partially completed the previously offered curriculum and who must apply and be accepted into the program in order to pursue the CCPOR Fellowship designation
3. practitioners who wish to enroll in some select individual seminars and distance programs strictly for professional development purposes and earning continuing education hours.

Those who wish to apply for the Chiropractic Rehabilitation Fellowship Eligible Program must:

1. hold or obtain minimum qualifications as specified by the CCPOR in order to be considered for admission
2. apply to the CCPOR for admission into the program using an application form available from the CCPOR, including an application payment of \$250 payable to the CCPOR
3. attend an interview with the CCPOR admissions review committee
4. comply with the application schedule as published on the CCPOR calendar.

The completion of the Chiropractic Rehabilitation Fellowship Eligible Program does not give the practitioner the right to practice as a chiropractic specialist. Achievement of

Fellowship status may be obtained by fulfilling the qualifications required by the CCPOR, at which time the right to specialty practice may be conferred.

Please refer to the CCPOR website and calendar located at <http://www.ccpor.ca/> for more detailed information about the program, the application and registration process.

Continuing Education Certificate Programs

CMCC offers an extensive series of multi-session programs, completed in progressive levels, which lead to advanced knowledge and training. Successful completion of these programs enables the health professional to receive certification in these areas. The roster of continuing education certificate programs changes from year to year in order to remain current with evidence based best practices and to meet demand from the health professional community. Some of the leading continuing education certificate programs are listed below.

Clinical Acupuncture

This 250 hour advanced acupuncture training program has been offered annually for over 15 years. It has been designed to accommodate practicing chiropractors, medical doctors, naturopathic doctors, dentists, and physiotherapists, depending upon the individual regulatory college requirements. The program incorporates intensive hands-on training, the major theories in Traditional Chinese Medicine, as well as up to date biomedical theories in acupuncture. The course is endorsed by the Acupuncture Council of Ontario (ACO). Completion of this program allows licensed chiropractors to provide acupuncture services to patients as an adjunctive therapy, if the services comply with the provincial standards of practice, including obtaining consent from patients.

Select individual weekend sessions are available to other professionals with relevant training or experience. Applications will be assessed on an individual basis.

Clinical Anatomy

Open to all health care practitioners, this program is a practical and clinically relevant anatomy review involving cadaver dissections and demonstrations using prosected specimens to augment the lecture presentations. The principle focus of the program, provided in five six-hour lecture and laboratory presentations, is on the nervous and musculoskeletal systems with a review of thoracic, abdominal and pelvic viscera.

Intramuscular Stimulation

The Intramuscular Stimulation (IMS) course is designed for chiropractors, medical doctors and physiotherapists. This theoretical and practical course is designed to improve the participant's ability to effectively treat segmental dysfunction of the spine and myofascial pain of radiculopathic origin. Upon successful completion of the course, participants will have learned a comprehensive system of diagnosis and treatment using the dry-needling technique of Intramuscular Stimulation. IMS incorporates a needling technique utilizing the acupuncture needle as a powerful tool for the treatment of myofascial disorders.

Dynamic Neuromuscular Stabilization

Dynamic Neuromuscular Stabilization (DNS) is a recent manual rehabilitative approach developed by Pavel Kolar, PT, Paed Dr, PhD. This method is based on the scientific principles of developmental kinesiology and the neurophysiological aspects of the maturing locomotor system. It is an approach that delineates an overall strategy designed to better understand the neurophysiological principles of locomotor system functions. The objectives for the course include demonstrating the basic principles of developmental kinesiology, describing the relationship between development in the first year of life and locomotor system pathology in adulthood, assessing and training the intrinsic spinal stabilizing system and performing the basic techniques for reflex turning and reflex creeping.

Distance Education

Online education programs allow chiropractors and other health professionals to enhance their clinical knowledge while accumulating continuing education credit hours. CMCC offers a variety of online programs tailored to conform to the CE requirements of Canadian provinces and many US states that recognise online distance learning.

Designed to assist practitioners who wish to enhance their skills from the comfort of their home or office, these interactive programs can be accessed through the CMCC website and online learning management system infrastructure.

Over 25 distance education titles are currently available on subjects ranging from the history of chiropractic to diagnosis, rehabilitation, diagnostic imaging, business management, archived conference presentations and more. CE is committed to expanding the online catalogue of courses. New titles are in production and scheduled to be released at various points throughout the year.

The best way to be current with the roster of available CMCC distance education courses is to visit the CMCC website and browse the Distance Education pages at www.cmcc.ca/distance.

It is the attendee's responsibility to enquire of the regulatory body for their jurisdiction and ensure its acceptance of continuing education hours earned as recognised credits.

Governance

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President

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