

PARAMEDIC

Program Outline

Major:	PARA
Length:	2 Years
Delivery:	4 Semesters
Credential:	Ontario College Diploma
Effective:	2013-2014
Location:	Barrie
Start:	Fall (Barrie)

Description

This two-year diploma program is designed to prepare students with the knowledge and skills to practice emergency pre-hospital medical/trauma care and to function as an integral member of the health care team in assisting victims of injury or illness. Graduates of the program will have demonstrated the ability to safely and competently care for individuals of all ages, in emergency and non-emergency situations and to administer emergency treatment and care measures. The program is comprised of classroom, practical/laboratory, clinical and field placement.

Career Opportunities

Graduates of the program are eligible to write the Ontario Advanced Emergency Care Assistant Care Examination (A.E.M.C.A.) and, if successful, may be employed as Paramedics in ambulance services throughout Ontario. Opportunities for graduates may also be found in the field of health and safety, rescue or dispatch work. Please note that employment in Ontario as a Paramedic requires a current class 'F' license and it is the graduate's responsibility to acquire this.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

- utilize the process and criteria provided for primary and secondary patient assessment to determine manifestations and priorities of treatment;

- evaluate priorities of assessment and effectiveness of interventions selected in response to changes in assessment findings and or conditions;
- practice effective and safe care by following established policies and procedures, current legislation, regulations and standards;
- integrate and perform delegated controlled medical acts;
- demonstrate effective communication skills with patients, utilizing therapeutic approaches when required;
- communicate and work collaboratively as a member of the Emergency Health Care team.
- demonstrate the knowledge and skills required for the safe operation and maintenance of emergency vehicles and equipment;
- demonstrate the level of physical fitness required by the profession and the means of attaining and maintaining same.

The Program Progression:

Fall Intake - Barrie

Sem 1		Sem 2		Sem 3		Sem 4

Fall		Winter		Fall		Winter
2013		2014		2014		2015

Articulation:

A number of articulation agreements have been negotiated with universities and other institutions across Canada, North America and internationally. These agreements are assessed, revised and updated on a regular basis. Please contact the program co-ordinator for specific details if you are interested in pursuing such an option. Additional information can be found on our website at <http://www.georgianc.on.ca/academics/articulations/>

Admission Requirements:

You must meet ONE of the following requirements to be eligible for admission to these programs:

Secondary school applicants:

- OSS Curriculum: OSSD or equivalent with Grade 12 English (C) or (U) (ENG4C, ENG4U); plus Grade 12 College Mathematics (MAP4C or MCT4C), or any Grade 12 University Math; plus Grade 11 College or Grade 11 or 12 University Biology (SBI3C, SBI3U, SBI4U);

plus Grade 12 College Chemistry or Grade 11 or 12 University Chemistry (SCH3U, SCH4C, SCH4U)

Non-Secondary school applicants (19 years or older):

- Any credit Communication course and most credit mathematics, and biology and chemistry courses taken at Georgian College
- College preparatory programs including those taken at Georgian College: Pre-health Sciences*
- Equivalent courses in English and mathematics, and biology and chemistry taken through secondary school or Independent Learning Centres (at the general, advanced, college or university level)
- Academic and Career Entrance Certificate (ACE) program with communications and mathematics, and biology and chemistry
- Mature student testing in English and mathematics, and testing/challenge exam in biology and chemistry that meets the minimum standards for admission (available through most testing services)*
- Ontario High School Equivalency Certificate (GED) plus biology and chemistry
- English, Literature or Communication and mathematics credit courses and most biology and chemistry credit courses from accredited colleges/universities
- If home schooled, applicants can write the mature student testing in English and mathematics, and testing/challenge exam in biology and chemistry that meets the minimum standards for admission (available through testing services)*

* available from Georgian College. For a complete listing please contact the Office of the Registrar.

Non-secondary school applicants who are 19 years of age or over by the first day of classes, and who lack the academic entrance qualifications, may be considered for entrance to an appropriate post-secondary diploma or certificate program as mature applicants. Mature applicants must meet all program specific prerequisites including all selection criteria; equivalencies are stated above. Applicants who are unsure whether they meet admission requirements should contact the Office of the Registrar. In addition, those applying as mature students and having no documentation of Grade 12 education must supply, if required, proof of age, such as a copy of an official birth certificate or driver's licence. Refer to Section 2.5 and 2.6 of the Academic Calendar for further details.

Credit transfer and course exemptions:

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may be eligible for credit transfer/course exemptions. Courses/experience must match at least 80% of the learning outcomes of a Georgian College course with a minimum grade of 60% or C achieved in previous coursework; some program exceptions apply (see program

outline). For further information please visit the Credit Transfer Centre website: georgiancollege.ca/admissions/credit-transfer/

Selection Process:

All applicants must write an admission test (HOAE). Selection is based on admission requirements, academic grades and testing results.

Criminal Reference Check:

Placement agencies require an up-to-date clear criminal reference check and vulnerable sector check prior to going out on placement. Students should obtain their criminal reference check approximately one month prior to placement; checks conducted earlier may not be considered current. As some jurisdictions require longer lead-time for processing, please check with the program co-ordinator to ensure you allow for sufficient turn-around time. Students are required to provide these checks prior to placement start.

NOTE: A record of criminal offences, for which a pardon has not been granted, may prevent the student from completing their placement, thereby affecting their ability to graduate.

Additional Information:

Completion of college immunization record.

In order to provide quality practicum placements, students will be placed in a variety of agencies or services in the region serviced by the campus. While every effort is made to arrange placements in the planned sequence, placements are dependent upon availability and may need to be completed at a later date. Students are required to provide their own transportation.

Students must also have completed a current Health Care Provider Level CPR (HCP) (includes theory and practice in artificial respiration, one and two person CPR, infant and child CPR, bag-valve-mask ventilation and defibrillation with an automated external defibrillator (AED) and provide proof of certification to the Coordinator. Online courses are NOT acceptable. CPR is to be renewed annually. Students must also complete a mask fit test during the first semester of classes and this is also to be renewed every year.

Note: GNED2028 Lifestyle Management is strongly recommended as a General Education choice.

Graduation Requirements:

- 20 Mandatory Courses
- 2 Communications Courses
- 3 General Education Courses
- 2 Field Placements

Graduation Eligibility:

To graduate from this program, the passing weighted average for promotion through each semester, from year to year and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester.

Mandatory Courses

- PARA1000 Anatomy and Physiology 1
- PARA1001 Communication for Emergency Health Workers
- PARA1002 Paramedic Fitness Training
- PARA1003 Patient Care Theory 1
- PARA1004 Patient Care Procedures 1 - Laboratory
- PARA1005 Medico-Legal Aspects
- PARA1006 Anatomy and Physiology - Advanced
- PARA1007 Crisis Intervention
- PARA1008 Patient Care Theory 2
- PARA1009 Patient Care Procedures 2 - Laboratory
- PARA1010 Ambulance Operations
- PARA1011 Hospital Clinical 1
- PARA2000 Patient Care Theory 3
- PARA2001 Patient Care Procedures 3 -Lab
- PARA2002 Advanced Skills for Primary Care Paramedics Theory
- PARA2003 Advanced Skills for Primary Care Paramedics - Lab
- PARA2005 Hospital Clinical 2
- PARA2007 Professional Issues, Research and Leadership
- PARA2008 Paramedic Comprehensive Review
- PARA2010 Pharmacology

Communications Courses

To be selected at time of registration from the College list, as determined by testing.

General Education Courses

To be selected from College list

Field Placements

PARA2006 Ambulance Field Experience

PARA2009 Ambulance Field Consolidation

Course Descriptions:

PARA1000 Anatomy and Physiology 1 56.0 Hours

This course combines the study of normal anatomy and physiology with the study of the related pathophysiological conditions that may be encountered in the field. The course will begin with an anatomical orientation to the body, and then build from cellular processes through inflammation and finishing with cardiovascular, respiratory, nervous, muscular and skeletal systems.

C- PARA1003 Patient Care Theory 1 and C- PARA1004 Patient Care Procedures 1 - Laboratory

PARA1001 Communication for Emergency Health Workers 42.0 Hours

This course is designed to provide the student with the skills to communicate effectively as a health care professional in a variety of media and settings. Students will learn the basics of medical terminology and will explore the theory and practice of effective listening and communication skills. Students will also be introduced to documentation techniques using field-specific forms.

PARA1002 Paramedic Fitness Training 42.0 Hours

This course is designed to provide the student with a general and job-specific level of fitness, enabling the student to perform the physical requirements of a Paramedic. Emphasis will be placed on a strength component focusing on safe lifting practices. The student will receive initial instruction on how to assess, monitor and improve his/her fitness level through designing and implementing a personal training program which will include both a fitness program and a nutritional awareness analysis. As part of an introduction to a lifelong healthy lifestyle, the student will participate in scheduled group fitness training sessions.

PARA1003 Patient Care Theory 1 56.0 Hours

This course provides the knowledge, skill and value base for critical thinking in the assessment and interpretation of a presenting medical / trauma situation. It focuses on the ability to make sound judgements with implications for patient management based on assessment findings and priority of treatment. Monitoring the patient's status is stressed in order to adapt to changes in the treatment and therapeutic approaches pertinent to the pre-hospital field including transporting a patient weighing up to 96kg.

C- PARA1004 Patient Care Procedures 1 - Laboratory

PARA1004 Patient Care Procedures 1 - Laboratory 42.0 Hours

In this course, the student will acquire the skills necessary to perform basic assessment and pre-hospital care interventions to victims of trauma or the critically ill. The student

will apply those selected care laboratory skills for the provision of basic pre-hospital emergency care in various simulated laboratory settings. At the end of this course the student will be able to demonstrate his/her ability to lift, transfer, position and transport patients in the pre-hospital setting (patients weighing up to 87 kg).

C- PARA1000 Anatomy and Physiology 1 and C- PARA1003 Patient Care Theory 1

PARA1005 Medico-Legal Aspects 28.0 Hours

This course is designed to provide the student with the ability to apply relevant legislation and regulations enacted by the Provincial and Federal Governments. The student will focus upon the accountability and responsibility of his/her behaviours by concentrating upon the legalities and ethical principles governing his/her professional duties. The student will understand his/her role as an advocate of patient rights to dignity, privacy, confidentiality and consent / non-consent to treatment.

PARA1006 Anatomy and Physiology - Advanced 42.0 Hours

This course is a continuation of Anatomy and Physiology I focusing on the structure and function of organ systems during health and disease. The organ systems presented will include integumentary, endocrine, renal, digestive and reproductive. Fluid, electrolyte and pH balance, labour and delivery, and neonatal physiology will be discussed.

P- PARA1000 Anatomy and Physiology 1 and C- PARA1008 Patient Care Theory 2 and C- PARA1009 Patient Care Procedures 2 - Laboratory

PARA1007 Crisis Intervention 42.0 Hours

This course provides the student with an understanding of interactions between patients, family members and caregivers in a variety of situations. The student will learn how to recognize, assess and intervene in situations involving stress, abuse, mental and physical disabilities, and death and discuss the impact of these situations for the patient, family and caregiver while being sensitive to culture, race, religion and gender. In addition, this course will provide students with strategies for ensuring their own personal safety and that of the patient, family members and bystanders as well as techniques to cope with stressful situations that may be encountered as paramedics.

PARA1008 Patient Care Theory 2 56.0 Hours

This course builds on the knowledge, skill and value base of Patient Care Theory I with emphasis on critical thinking related to assessment and interpretation of assessment findings and their implications for patient management. Additional focus is placed on the adaptation of the body to trauma and disease through compensatory mechanisms. The related patient assessment and management are directed by continuous monitoring of patient management, adapting to changes and determining the potential for life threat.

P- PARA1000 Anatomy and Physiology 1 and P- PARA1003 Patient Care Theory 1 and P- PARA1004 Patient Care Procedures 1 - Laboratory and C- PARA1009 Patient Care Procedures 2 - Laboratory

PARA1009 Patient Care Procedures 2 - Laboratory 56.0 Hours

In this course, the student will acquire the skills necessary to perform specific assessment and pre-hospital care interventions to victims of trauma or illness. He/she will also learn how to recognize clinical complications and minimize them, either at the scene or during transport by ambulance. The student will apply selected laboratory skills for the provision of specific pre-hospital emergency care in various simulated laboratory settings. The student will apply biomechanical principles to demonstrate his/her ability to lift, transfer, position, and transport patients in the pre-hospital setting (patients weighing 96 kg).

P- PARA1000 Anatomy and Physiology 1 and P- PARA1003 Patient Care Theory 1 and P- PARA1004 Patient Care Procedures 1 - Laboratory and C- PARA1006 Anatomy and Physiology - Advanced and C- PARA1008 Patient Care Theory 2

PARA1010 Ambulance Operations 42.0 Hours

In this theory based, non-driving, course, the student will learn to prepare, maintain and safely utilize an emergency vehicle in which principles of defensive driving will be discussed. The student will learn the role that operational policies and procedures play in the provision of ambulance service and perform these skills in the lab setting. The student will also gain knowledge of and utilize safety-related equipment and procedures and learn to work safely with alternate modes of patient transportation. In addition, the student will develop the skills necessary for performing radio communications and licensure to utilize the communication equipment.

PARA1011 Hospital Clinical 1 84.0 Hours

Practical experience will be provided in a number of hospital settings. Students will apply theoretical and practical content of previous courses through observation and participation in a variety of selected hospital departments. Students will gain an understanding of the role of hospital staff in the continuing care of pre-hospital patients.

P- PARA1003 Patient Care Theory 1 and P- PARA1004 Patient Care Procedures 1 - Laboratory and C- PARA1008 Patient Care Theory 2 and C- PARA1009 Patient Care Procedures 2 - Laboratory

PARA2000 Patient Care Theory 3 56.0 Hours

This course utilizes the growing knowledge, skills and values of the student as a basis for critical thinking in the assessment and interpretation of medical and trauma situations. Students will focus on the ability to make sound judgements with implications for patient management based on assessment findings and priority of treatment through the use of problem based learning. The continuous monitoring of the status of the patient is emphasized as a means to provide the optimum therapeutic approach for pre-hospital care.

P- PARA1006 Anatomy and Physiology - Advanced and P- PARA1008 Patient Care Theory 2 and P- PARA1009 Patient Care Procedures 2 - Laboratory and C- PARA2001 Patient Care Procedures 3 -Lab

PARA2001 Patient Care Procedures 3 -Lab 42.0 Hours

In this course, the student will acquire the skills necessary to perform specific assessment and pre-hospital care interventions to victims of trauma or to the critically ill. The student will also learn how to recognize complications and minimize them, either at the scene or during transport by ambulance. The student will apply selected laboratory skills for the provision of specific pre-hospital emergency care in various simulated laboratory settings.

P- PARA1006 Anatomy and Physiology - Advanced and P- PARA1008 Patient Care Theory 2 and P- PARA1009 Patient Care Procedures 2 - Laboratory and C- PARA2000 Patient Care Theory 3

PARA2002 Advanced Skills for Primary Care Paramedics Theory 42.0 Hours

This course emphasizes the appropriate theoretical preparation required to perform advanced paramedic skills including electrical therapy, symptom relief and initiation of intravenous (IV) lines. Focus will be placed on the potential risks, benefits and limitations of these skills as they relate to assessment findings and subsequent treatment plan. The interaction between primary care (PCP) and advanced care paramedics (ACP) will also be explored in the context of PCP and ACP scopes of practice.

P- PARA1006 Anatomy and Physiology - Advanced and P- PARA1008 Patient Care Theory 2 and P- PARA1009 Patient Care Procedures 2 - Laboratory

PARA2003 Advanced Skills for Primary Care Paramedics - Lab 28.0 Hours

This course emphasizes the appropriate preparation required to perform advanced paramedic skills including electrical therapy, symptom relief and initiation of intravenous (IV) lines. Focus will be placed on the performance of practical skills related to advanced medical acts in laboratory and simulated environments.

P- PARA2000 Patient Care Theory 3 and P- PARA2001 Patient Care Procedures 3 -Lab and C- PARA2002 Advanced Skills for Primary Care Paramedics Theory

PARA2005 Hospital Clinical 2 42.0 Hours

Practical experience will be provided in a number of acute care and emergent hospital settings. Students will apply theoretical and practical content of previous courses through observation and participation in a variety of selected hospital departments. Students will gain an understanding of the role of hospital staff in the continuing care of pre-hospital patients.

P- PARA1008 Patient Care Theory 2 and P- PARA1009 Patient Care Procedures 2 - Laboratory and P- PARA1011 Hospital Clinical 1

PARA2006 Ambulance Field Experience 84.0 Hours

This course provides students with an opportunity to gain first-hand practical experience in the community as a part of an emergency health services team. Under the direct supervision of a paramedic team, students will apply theoretical and practical content of previous courses through observation and participation in emergency

medical and trauma situations. Students will gain an understanding of the role of emergency medical services in the care of pre-hospital patients.

P- PARA1006 Anatomy and Physiology - Advanced and P- PARA1008 Patient Care Theory 2 and P- PARA1009 Patient Care Procedures 2 - Laboratory and P- PARA1011 Hospital Clinical 1

PARA2007 Professional Issues, Research and Leadership 42.0 Hours

This course is designed to develop the students' critical thinking skills in researching and discussing issues relevant to the practice of pre-hospital care. The course will encourage the development and use of information literacy strategies to locate, select and evaluate information as a means to support decisions and assist in life-long learning in the professional role of paramedic. Through examination of issues related to paramedicine, students will appreciate their responsibilities as future leaders in prehospital care and further define and formalize their role in health care as a whole.

P- PARA1008 Patient Care Theory 2

PARA2008 Paramedic Comprehensive Review 28.0 Hours

This course is a final consolidation of theory and practice as a means of preparing students to write certification exams and to successfully transition from the role of student to practitioner. Students will have the opportunity to identify their strengths and weaknesses through the use of practical and theoretical evaluative methods.

P- PARA2000 Patient Care Theory 3 and P- PARA2001 Patient Care Procedures 3 -Lab and P- PARA2002 Advanced Skills for Primary Care Paramedics Theory and C- PARA2003 Advanced Skills for Primary Care Paramedics - Lab and P- PARA2005 Hospital Clinical 2 and C- PARA2009 Ambulance Field Consolidation

PARA2009 Ambulance Field Consolidation 350.0 Hours

This course provides students with an opportunity to consolidate skills and knowledge developed during the program as a member of an emergency health services team. Under the direct supervision of a paramedic preceptor, students will apply theoretical and practical knowledge and skills from previous courses through participation in emergency medical and trauma situations. The experiential learning obtained from this placement will form the basis for professional practice in the future.

P- PARA2000 Patient Care Theory 3 and P- PARA2001 Patient Care Procedures 3 -Lab and P- PARA2002 Advanced Skills for Primary Care Paramedics Theory and C- PARA2003 Advanced Skills for Primary Care Paramedics - Lab and P- PARA2005 Hospital Clinical 2 and C- PARA2008 Paramedic Comprehensive Review

PARA2010 Pharmacology 28.0 Hours

In this course, students gain an introductory knowledge of the principles of pharmacology including pharmacokinetics, pharmacodynamics, routes of administration, patient rights and administration of drugs. Students will study drugs commonly encountered during paramedic practice with particular emphasis on drugs administered within the scope of practice of Primary Care Paramedic (PCP) as per the

National Occupational Competency Profiles drug list and the American Heart Association guidelines. Students learn to accurately perform medical math, make critical decisions and evaluate pharmacological interventions in the context of clinical presentations.

P- PARA1006 Anatomy and Physiology - Advanced and P- PARA1008 Patient Care Theory
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Course Description Legend

P = Prerequisite; C = Concurrent prerequisite; CO= Corequisite

Information contained in College documents respecting programs is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs. The college reserves the right to add or delete programs, options, courses, timetables or campus locations subject to sufficient enrolment, and the availability of courses.