

ORTHOTIC / PROSTHETIC TECHNICIAN PROGRAM (S102)

PROGRAM NAME	Orthotic / Prosthetic Technician	TUITION	\$6,598.00 *
COURSE CODE	S102	ADDITIONAL COST	
SCHOOL	School of Health and Wellness		
CENTRE	Health Sciences		
LOCATION	Sunnybrook Health Sciences Centre		
DURATION	2 years (4 semesters)		
FIELD EDUCATION	Required in semesters 3 and 4		
STARTING MONTH	September		
CREDENTIAL	Ontario College Diploma		
YEAR OF STUDY	2018-2019		
METHOD OF STUDY	FT		
APPLY TO	Ontario Colleges ¹		

Orthotic/Prosthetic Technician is a practice-oriented, hands-on program that teaches students to be competent in the use of many hand tools and specialized machines for the **fabrication of orthotic and prosthetic devices**.

This is a full-time program open only to domestic students, with classes starting every September. (Winter and summer start options are not available.) It is taught at Sunnybrook Health Sciences Centre by faculty currently working in the field.

To be considered, applications must be submitted to OntarioColleges.ca by February 1 of each year.

Over the course of two years, students will learn how to make the following devices to help rehabilitate individuals with disabilities:

- **orthoses (braces and splints)**
- **prostheses (artificial limbs)**

New materials, techniques and controls create an increasing demand for technically competent people in this field.

The orthotic/prosthetic technician makes prostheses and orthoses from technical specifications, measurements and positive plaster casts using a variety of materials, such as:

- thermosetting resins
- thermoforming plastics
- metal
- fabrics
- leather

You should consider applying if you have:

- good hand skills
- a strong background in math and human sciences



PART TIME STUDY OPTIONS

This program is not available part-time.

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Perform all primary fabricating procedures such as vacuum molding, laminations, bending and aligning components, and other such processes.
2. Perform all required technical skills such as fastening, sanding, gluing, cutting, drilling, etc., at a reasonable competence.
3. Identify and perform tasks involved in the repair and maintenance of prostheses and orthoses.
4. Identify and describe the common materials used in orthotic and prosthetic practice and demonstrate the proper use of such materials.
5. Develop an efficient and effective protocol for the fabrication of orthoses and prostheses, based on the appropriate prescription and directions of the Certified Orthotist or Prosthetist.

6. Identify and demonstrate the proper procedures, operating specifications and common safety practices in the use of machines, tools and the handling of materials required in the fabrication of orthoses and prostheses.
7. Demonstrate a competent knowledge in the application and function of common orthotic and prosthetic appliances and their corresponding components and systems.
8. Demonstrate the common orthotic and prosthetic bench or static alignment procedures necessary to prepare the orthotic or prosthetic appliance for patient fitting and articulate the principles (biomechanical, anatomical, etc.) used in determining such alignments.
9. Demonstrate a basic knowledge of the pertinent biomechanical, anatomical, physiological, and pathological concepts necessary for the effective implementation of technical and clinical procedures in the delivery of orthotic and prosthetic care.
10. Appreciate the need to keep abreast of new techniques and developments with respect to orthotic and prosthetic care and demonstrate an ongoing commitment to the research and development of more effective prosthetic and orthotic designs and procedures.
11. Appreciate the roles the Orthotic/Prosthetic professional bodies play in the maintenance of standards and the development of the profession and be willing to contribute towards its advancement.
12. Appreciate the roles of the various health team members involved in the delivery of orthotic and prosthetic care.
13. Be familiar with issues related to the supervision of support personnel and laboratory activities and also the administrative duties required in the management of a prosthetic/orthotic practise.

REQUIRED COURSES

SEMESTER 1

Code	Course Name
ANAT1036	Anatomy
ORTH1007	Materials and Laboratory Techniques I
KINE1010	Kinesiology for Orthotics/Prosthetics Technicians I
ORTH1008	Fabrication Theory I
COMM1007	College English
GNED	General Education Elective

SEMESTER 2

Code	Course Name
PATH1013	Pathology
ORTH1009	Materials and Laboratory Techniques II
ORTH1010	Fabrication Theory II
KINE1014	Kinesiology for Orthotics/Prosthetics Technicians II
GNED	General Education Elective (choose two)

SEMESTER 3

Code	Course Name
ORTH2009	Materials and Laboratory Techniques III
ORTH2011	Externally Powered Orthotics/Prosthetics Rehabilitation Techniques
ORTH2010	Fabrication Theory III
KINE1003	Kinesiology/Biomechanics for Technicians I
ORTH2012	Pre-Graduate Work Experience I
GSCI1056	Computers in Our Society

SEMESTER 4

Code	Course Name
ORTH2016	Materials and Laboratory Techniques IV
ORTH2015	Professional Issues in Orthotics/Prosthetics
ORTH2013	Pre-Graduate Work Experience II
ORTH2017	Fabrication Theory IV
KINE1005	Kinesiology/Biomechanics for Technicians II
ORTH2014	Advanced Material Orthotics/Prosthetics Techniques

YOUR CAREER

Two years after graduation, alumni will be eligible to apply for professional registration with Orthotics Prosthetics Canada (formerly the "Canadian Board of Certification").

Excellent employment opportunities are available across Canada in:

- hospitals
- rehabilitation centres
- private facilities

FUTURE STUDY OPTIONS

Graduates of this program with a B.Sc. or equivalent degree who wish to continue their studies may qualify for admission to the Clinical Methods in Orthotics/Prosthetics (Postgraduate) program.

See the S407 Clinical Methods in Orthotics/Prosthetics program web page² for full admission requirements.

ADMISSION REQUIREMENTS

Applicants are selected on the basis of their academic achievement, including the required courses, and the selection criteria outlined below.

- Ontario Secondary School Diploma or equivalent**
- Grade 12 English (C or U)
- Grade 11 Math (M or U) or Grade 12 (C or U)
- Grade 11 Biology (C or U) or Grade 12 (U)
- Post-secondary (college or university) courses that are equivalent to the secondary school requirements stated will be accepted (certain courses only)
- Department interview (in person), including a written test (English, Math, Human Anatomy), dexterity test and problem solving tasks

Please note: Physics courses are recommended prior to starting the program.

Please visit georgebrown.ca/prostheticsorthotics for more information.

** Mature student status (19 years or older and no OSSD)

Mature Students may take the Admissions Assessment³ for English, Math or Science, OR may consider upgrading to achieve the credit(s) needed in English⁴, Math⁵ or Science⁶.

COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

This program is available to domestic applicants only.

SPECIAL REQUIREMENTS

ADDITIONAL MANDATORY REQUIREMENTS

PRE-PLACEMENT HEALTH FORM (FOR SECOND YEAR STUDENTS ONLY)

- Second year students must meet all the mandatory pre-placement health requirements for this program. It may take up to four months to complete all the requirements.
- All costs, service fees and fines associated with the overall health requirements are the responsibility of the student.
- For further details and to download the mandatory pre-placement health form, go to the Pre-placement website at georgebrown.ca/preplacement.

POLICE VULNERABLE SECTOR CHECK (FOR SECOND YEAR STUDENTS ONLY)

- In compliance with requests from our placement partners, all students in this program are required to have a police vulnerable sector check completed, and this check must be renewed annually before entering into field or clinical placement.
- The police vulnerable sector check process typically takes two to three months, but under some circumstances can take four to eight months. This is required to protect the clientele of our placement partner agencies, who are considered “vulnerable persons” under the law.
- Students are responsible for ensuring that the police record check covers appropriateness for “individuals being employed and/or volunteering who will be working with vulnerable person(s).”
- Students are required to keep the original copy of their police vulnerable sector check.
- Students who are unable to provide a “clear” police reference check may not be able to start their field or clinical placement and therefore may be unable to complete the program. Students who are not eligible to attend their practice placement due to a “not clear” status will jeopardize their progress in the program.
- Failure to meet the requirements for field placement will prevent students from completing the program and/or securing employment.
- The fees for the police record check vary and must be paid by the student. For more information, please visit the Pre-placement website at georgebrown.ca/preplacement and georgebrown.ca/preplacement/record_check

CONTACT US

Phone: 416-480-5783 and leave a message at this number.

Email: applicant_info@gbcpando.com

Visit the program website at

georgebrown.ca/prostheticsorthotics

For more information about George Brown College, you may also call the Contact Centre at 416-415-2000 (TTY 1-877-515-5559) or long distance 1-800-265-2002.

LINKS REFERENCE

¹<https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=S102&lang=en>

²<http://www.georgebrown.ca/programs/clinical-methods-in-orthotics-prosthetics-program-postgraduate-s407/>

³<http://www.georgebrown.ca/assessment/admi-pre/>

⁴<http://www.georgebrown.ca/upgrading-credits/english-diploma/>

⁵<http://www.georgebrown.ca/upgrading-credits/math-diploma/>

⁶<http://www.georgebrown.ca/upgrading-credits/sciences-diploma/>

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