

# PRE-HEALTH SCIENCES PATHWAY TO ADVANCED DIPLOMAS AND DEGREES

**Program:** PHPA

**Credential:** Ontario College Certificate

**Delivery:** Full-time

**Length:** 2 Semesters

**Duration:** 1 Year

**Effective:** Fall 2018, Winter 2019

**Location:** Barrie (Fall, Winter), Muskoka (Fall), Orangeville (Fall), Owen Sound (Fall, Winter)

## Description

This program is designed to prepare students for success in their pursuit of a career in the field of health sciences. Students are afforded opportunities to explore various health science careers while fostering the professional attitudes and the solid knowledge and skill base required for entry into those careers. Studies encourage personal, professional and career awareness, study skills to support student academic success, and the essential employability skills required in the today's workforce. Course offerings emphasize communications, biology, anatomy \physiology, mathematics, physics, general, organic and biochemistry, safe laboratory practice, medical terminology, interprofessional practice, and cultural competencies, including indigenization. The application of these skills to health sciences and related science disciplines is integrated throughout the entire program.

## Career Opportunities

Graduates of this program are well-prepared to apply for admission to college advanced diploma programs or to general science degree programs in a wide range of studies in health science or general science.

Successful completion of the program does not guarantee entry into any health science and/or general science program.

## Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. examine biological concepts, processes and systems of the human body, including genetics and epigenetics, as well as the structure, function and properties of the molecules of life, cells, tissues and organ systems in relation to homeostasis, physical development and health;
2. examine concepts, processes and systems of chemistry, including atomic and molecular structure; quantities in chemical reactions; solutions and solubility; acids and bases; as well as organic chemistry and biochemistry in relation to health and the human body;
3. solve numeric problems and interpret data related to health sciences and other science-related fields using mathematical concepts, including algebra and probability, along with descriptive and inferential statistics;
4. use health sciences and other science-related language and terminology appropriately to communicate clearly, concisely, and correctly in written, spoken, and visual forms;

5. prepare a personal strategy and plan for academic, career and professional development in the health sciences or other science-related fields;
6. investigate health sciences and science-related questions, problems and evidence using the scientific method;
7. examine fundamental physics laws and concepts and their application to health sciences and other science-related fields;
8. employ environmentally sustainable practices within the health sciences environment;
9. apply basic entrepreneurial strategies to identify and respond to new opportunities.

## The Program Progression

### Fall Intake - Barrie, Muskoka, Orangeville, Owen Sound

- **Sem 1:** Fall 2018
- **Sem 2:** Winter 2019

### Winter Intake - Barrie, Owen Sound

- **Sem 1:** Winter 2019
- **Sem 2:** Summer 2019

## Admission Requirements

OSSD or equivalent with

- Grade 12 English (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: [www.georgiancollege.ca/admissions/policies-procedures/](http://www.georgiancollege.ca/admissions/policies-procedures/) (<http://www.georgiancollege.ca/admissions/policies-procedures/>)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit Transfer Centre website for details:

[www.georgiancollege.ca/admissions/credit-transfer/](http://www.georgiancollege.ca/admissions/credit-transfer/) (<http://www.georgiancollege.ca/admissions/credit-transfer/>)

## Graduation Requirements

9 Program Courses  
1 Communications Course  
1 General Education Course

### Graduation Eligibility

To graduate from this program, the passing weighted average for promotion through each semester, 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 unless otherwise stated on the course outline.

### Program Tracking

Semester 1	Hours
Program Courses	
BIOL 1021	Biology for Health and Sciences 1 56

CHEM 1008	Chemistry for Health and Sciences 1	56
HLTH 1007	Foundations for Success in Health Sciences	42
MATH 1030	Math for Health and Sciences 1	42
Communications Course		
Select 1 course from the communications list during registration.		42
Hours		238
<b>Semester 2</b>		
BIOL 1022	Biology for Health and Sciences 2	56
CHEM 1009	Chemistry for Health and Sciences 2	56
HUMN 1000	Critical Thinking	42
MATH 1031	Math for Health and Sciences 2	42
PHYS 1006	Physics for Health and Sciences	56
General Education Course		
Select 1 course from the general education list during registration.		42
Hours		294
Total Hours		532

*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.*