



STUDYING HUMAN BIOSCIENCE
OPENS UP A WORLD OF
OPPORTUNITIES, WHERE YOU
CAN MAKE A DIFFERENCE BY
UNRAVELING THE COMPLEXITIES
OF HUMAN HEALTH AND
DISEASE

- Carol W. Greider

ABOUT HUMAN BIOSCIENCES

We offer the only Human Biosciences (HuBi) undergraduate program in Canada. The central focus is on how food, drugs and the environment impact human health. Put another way, HuBi will allow you to examine and understand the cellular and molecular basis of health and disease at all stages of life.

DEGREES OFFERED

- B.Sc. major or honours in HuBi

Sub-specializations include *biochemistry, health and disease, molecular genetics,*

and nutrition and metabolism. Joint honours programs are offered with cell biology, chemistry, physics or behavioural neuroscience. A minor in HuBi is available. International study opportunities are available as a semester abroad and/or as HuBi courses offered at the Memorial University Harlow campus.

Students who wish to major in HuBi should plan their programs well in advance. The optimal first-year for this program consists of the following courses: two chemistry, one biology, two critical

reading and writing (one must be from english), one mathematics, three open electives and either one HuBi or a second biology.

For more information, please scan the QR code or consult with the academic advisor (bcadvice@mun.ca) at the earliest opportunity.

Human Biosciences at Memorial

The program provides indepth knowledge of the cellular and molecular basis of health and the nutritional, environmental and pharmaceutical factors that may impact health and disease. Introductory HuBi courses are interdisciplinary, blending biochemistry, nutrition, pharmacology and toxicology concepts. In upper years, students may follow their own interests or choose a sub-specialty concentration. Dedicated lab courses provide real-world practical lab project experiences.

Students may gain research experience through Memorial University Career Experience Program (MUCEP and various summer research programs, joining labs studying:

- progression and treatment of cancer
- protein structure and drug development
- control and regulation of gene expression
- nutrients, growth and development
- environmental factors and food choices
- regulation of the immune system
- maternal/early life nutrition and adult disease risk
- computer modelling of cellular events
- teaching methods in Life Sciences

CAREERS

Sample career and educational opportunities for Human Biosciences graduates include:

- Biotechnology research
- Pharmaceutical/food industry
- Nutrition industry
- Forensic science
- Science education/communication
- Graduate school in Life Sciences
- Professional school admission (eg. Medicine, Law, Physiotherapy, Nursing, Genetic Counselling, Optometry, Occupational Therapy)



709 864 8530

bcadvice@mun.ca

www.mun.ca/biochem

Facebook: @munbiochem

X: @MunBiochemistry

Instagram: @munbiochemistry