

HEALTH SCIENCES

Develop an appreciation for the world's emerging health issues and be inspired to think globally and strategically to create innovative solutions while earning a Bachelor of Health Sciences (BHS) degree.

- **Build** your own degree with a variety of modules and elective options that allow you to tailor your program of study to meet your interests.
- **Focus** your learning experience on improving human health and developing unique skills and perspectives to tackle health-related issues affecting people in all corners of the world.
- **Examine** health through a variety of lenses to gain an appreciation for how social, political, economic, and environmental factors impact people across their lifespan

Health Sciences promotes health and wellness and reviews how healthcare is provided. The Bachelor of Health Sciences program explores these concepts as well as Canadian and international health systems.

<p style="text-align: center;">MODULES</p> <ul style="list-style-type: none"> ● Health Sciences* ● Health and Aging ● Health Sciences with Biology ● Health Promotion ● Rehabilitation Sciences <p>*Interested in business school? You can combine Western's Health Science program with the Ivey Business School!</p>	<p style="text-align: center;">AVERAGE TO MAINTAIN</p> <p><u>Major and Specialization</u></p> <ul style="list-style-type: none"> ● Cumulative average of 65% <p><u>Honours Specialization:</u></p> <ul style="list-style-type: none"> ● Cumulative average of 70% ● No course below 50%
--	---

<p style="text-align: center;">ADMISSION REQUIREMENTS</p> <p>Six Grade 12U or M-level credits including:</p> <ul style="list-style-type: none"> ● Grade 12U English (ENG4U) ● Grade 12U Biology (SBI4U) <p>One of :</p> <ul style="list-style-type: none"> ● Grade 12U Advanced Functions (MHF4U) ● Grade 12U Calculus and Vectors (MCV4U) ● Grade 12U Math of Data Management (MDM4U) <p>Recommended courses:</p> <ul style="list-style-type: none"> ● Grade 12U Chemistry (SCH4U) 	<p style="text-align: center;">ADMISSIONS AVERAGE</p> <p style="text-align: center;">Page 15</p> <p>Percent with entering average of...</p> <ul style="list-style-type: none"> ● 95% or more - 5.6% ● Between 90% and 94% - 33.8% ● Between 85% and 89% - 48.7% ● Between 80% and 84% - 11.8% <p>Minimum admission average: 80%</p> <ul style="list-style-type: none"> ● Achieving minimum does not guarantee admission <p>Overall admission average: 88.6%</p>
---	--

<p style="text-align: center;">COURSES AT A GLANCE</p> <p style="text-align: center;"><i>HOW ARE THE COURSES DIVIDED BETWEEN YEARS?</i></p> <p>FIRST YEAR:</p> <ul style="list-style-type: none"> ● Focus on Health and Wellness, Biology <p>SECOND, THIRD, FOURTH YEARS:</p> <ul style="list-style-type: none"> ● Focus on Anatomy, Measurement & Analysis, Research Methods, Ethics & Health, Health Policy, Health Promotion, Health Issues in Aging, Health Issues in Childhood and Adolescence. 	<p style="text-align: center;">FIRST YEAR COURSES</p> <ul style="list-style-type: none"> ● Personal Determinants of Health (Health Sciences 1001A/B) ● Social Determinants of Health (Health Sciences 1002A/B) ● Personal and Social Determinants of Resilience and Wellbeing (Health Sciences 1110A/B) ● Biology for Science I (Biology 1001A) ● Biology of Science II (Biology 1002B) ● Elective Courses (2.5 Credits) <p>For information on the courses you will be taking in your four (4) years in Western University's Health Science program visit this website:</p> <p>https://www.uwo.ca/fhs/shs/undergraduate/courses/index.html</p>
---	---

CAREER OPPORTUNITIES

School of Health Science Studies graduates have successfully established careers in a wide variety of health related fields, including:

- Health promotion
- Community Health Programming
- Public sector administration and policy development areas (e.g: Health Canada)
- Biomedical Ethics
- Business and Industry (wellness and rehabilitation organizations, pharmaceuticals)
- Non-profit sector (e.g: Heart and Stroke Foundation and the Canadian Cancer Society)

<p style="text-align: center;">FIRST YEAR TUITION AND FEES</p> <p>Total: \$7,827.65</p> <p>Tuition: \$6,050.00</p> <p>Student Organization Fees: \$395.08</p> <p>UWO Student Ancillary Fees: \$513.02</p> <p>Transit Pass: \$273.50</p> <p>Health Plan: \$183.44</p> <p>Dental Plan: \$177.01</p> <p>Orientation Week Fee: \$135.60</p> <p>Faculty Donation Fee: \$100.00</p>	<p style="text-align: center;">UPPER YEARS TUITION AND FEES</p> <p>Total: \$7,692.05</p> <p>Tuition: \$6,050.00</p> <p>Student Organization Fees: \$395.08</p> <p>UWO Student Ancillary Fees: \$513.02</p> <p>Transit Pass: \$273.50</p> <p>Health Plan: \$183.44</p> <p>Dental Plan: \$177.01</p> <p>Orientation Week Fee: N/A</p> <p>Faculty Donation Fee: \$100.00</p>
---	---

[CHECK INFO AND CUDO \(COMMON UNIVERSITY DATA OF ONTARIO\)](#) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

NURSING - Western-Fanshawe Collaborative BScN

Gain the skills and knowledge necessary to practice as a Registered nurse through theory courses, professional practice, case-based learning and simulated clinical education. Develop clinical skills and confidence in a lab setting in one of our state-of-the-art simulation suites before embarking on your first practical placement. The Bachelor of Science in Nursing Degree (BScN) is a four-year program that qualifies graduates to apply for registration as a professional nurse with the College of Nurses of Ontario.

Western University and Fanshawe College's partnership allows for more students to be accepted into this program. The curriculum offered at both sites is identical and students develop the same skills and knowledge base regardless of where they start the program.

<p style="text-align: center;"><u>ADMISSION REQUIREMENTS</u></p> <p>Six Grade 12U or M-level credits including:</p> <ul style="list-style-type: none"> ● Grade 12 English (ENG4U) ● Grade 12 Biology (SBI4U) ● Grade 12 Chemistry (SCH4U) <p>One of:</p> <ul style="list-style-type: none"> ● Functions and Applications (MCF3M) ● Functions (MCR3U) <p style="text-align: center;">SUPPLEMENTAL ADMISSION/APPLICATION REQUIREMENTS</p> <p>All applicants to the Western-Fanshawe Collaborative BScN Program are required to complete the CASPer test (Computer-Based Assessment for Sampling Personal Characteristics), a mandatory online 90-minute computer-based assessment as a component of the admission process</p>	<p style="text-align: center;"><u>ADMISSIONS AVERAGE</u></p> <p style="text-align: center;">Page 15</p> <p>Percent with an average of...</p> <ul style="list-style-type: none"> ● 95% or more - 9.0% ● Between 90% and 94% - 65.6% ● Between 85% and 89% - 25.4% ● Between 80% and 84% - 0.0% <p>Minimum admission average: 85%</p> <ul style="list-style-type: none"> ● Achieving minimum does not guarantee admission <p>Overall admission average: 91.0%</p> <p style="text-align: center;"><u>AVERAGE TO MAINTAIN</u></p> <ul style="list-style-type: none"> ● Students must maintain an average of above 65%
---	--

<p style="text-align: center;"><u>FIRST YEAR COURSES</u></p> <p><i>TERM 1:</i></p> <ul style="list-style-type: none"> ● Foundational Concepts of Professional Nursing I (Nursing 1060A) ● Health Promotion and Caring for Self, Colleagues and Clients I (Nursing 1070A) ● Holistic Health Assessment I - Lab-based course (Nursing 1080A) ● Human Physiology (Physiology 1020) ● Writing for Professional Success in Nursing (Writing 1030F) <p><i>TERM 2:</i></p> <ul style="list-style-type: none"> ● Foundational Concepts of Professional Nursing II (Nursing 1160B) ● Health Promotion and Caring for Self, Colleagues and Clients II (Nursing 1170B) ● Holistic Health Assessment II - Lab-based course (Nursing 1180B) ● Human Anatomy for Nursing Students (Nursing 1330B) ● Human Physiology - continuation (Physiology 1020) 	<p style="text-align: center;"><u>SECOND YEAR COURSES</u></p> <p><i>TERM 1:</i></p> <ul style="list-style-type: none"> ● Health Promotion & Caring: Families and Communities (Nursing 2220A/B) ● Professional Practice: Families and Communities (Nursing 2221A/B) ● Introduction to Health Informatics Within Nursing (Nursing 2240F) ● Pathology for Nursing (Pathology 2420A) ● Elective course (0.5 credit) <p><i>TERM 2:</i></p> <ul style="list-style-type: none"> ● Health Promotion & Caring: Supporting Health (Nursing 2230A/B) ● Professional Practice: Labs/Simulation (Nursing 2231A/B) ● Ways of Knowing: Research (Nursing 2250B) ● Introduction to Pharmacology and Therapeutics (Pharmacology 2060B) ● Elective course (0.5 credit)
--	---

<p style="text-align: center;"><u>THIRD YEAR COURSES</u></p> <p><i>TERM 1:</i></p> <ul style="list-style-type: none"> ● Ways of Knowing: Data Analysis (Nursing 3340A) ● Health Promotion & Caring: Clients with Health Challenges I (Nursing 3910A) ● Professional Practice: Clients with Health Challenges I - 144 hours of hospital/acute care (Nursing 3911A) ● Microbiology and Immunology for Nursing Students (Nursing 3820A) ● Elective course (0.5 credit) <p><i>TERM 2:</i></p> <ul style="list-style-type: none"> ● Health in Global Context (Nursing 3310B) ● Health Promotion & Caring: Clients with Health Challenges II (Nursing 3920B) ● Professional Practice: Clients with Health Challenges II - 144 hours of hospital/acute care (Nursing 3921B) ● Two Elective courses (0.5 credit each) 	<p style="text-align: center;"><u>FOURTH YEAR COURSES</u></p> <p><i>TERM 1:</i></p> <ul style="list-style-type: none"> ● Professional Ethical and Legal Obligations: A Critical Appraisal (Nursing 4320A) ● Advanced Concepts for Professional Practice (Nursing 4400A) ● Professional Practice (Nursing 4410A) ● Future Directions for Nursing & Health Care (Nursing 4440A) ● Two Elective courses (0.5 credits each) <p><i>TERM 2:</i></p> <ul style="list-style-type: none"> ● Professional Practice: Integrative Practicum (Nursing 4461W/X) → 456-hour preceptored practicum
---	---

<p style="text-align: center;"><u>FIRST YEAR TUITION AND FEES</u></p> <p>Total: \$7,827.65</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: \$135.60 Faculty Donation Fee: \$100.00</p>	<p style="text-align: center;"><u>UPPER YEAR TUITIONS AND FEES</u></p> <p>Total: \$7,692.05</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: N/A Faculty Donation Fee: \$100.00</p>
--	--

CHECK EINEO AND CUDO (COMMON UNIVERSITY DATA OF ONTARIO) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

MEDICAL SCIENCES

If you enjoy studying the aspects of biology that define and influence the human condition, you might be interested in the Bachelor of Medical Sciences (BMSc) degree, and study one or more basic medical science disciplines. The Bachelor of Medical Sciences (BMSc) Program, offered jointly by the Faculty of Science and the Schulich School of Medicine & Dentistry, is designed for students interested in studying the basic medical sciences at an advanced level. Students interested in this program should apply to Medical Sciences First Entry. Students admitted to Medical Sciences First Entry are assured admission to Year 3 BMSc provided they satisfy certain conditions in Medical Sciences 1 and 2.

<p style="text-align: center;"><u>MODULES</u></p> <ul style="list-style-type: none"> • Anatomy and Cell Biology • Biochemistry • Epidemiology and Biostatistics • Interdisciplinary Medical Sciences • MEDical Biophysics • Medical Health Informatics • Microbiology and Immunology • Neuroscience • One Health • Pathology • Physiology and Pharmacology 	<p style="text-align: center;"><u>GRADE MARK TO MAINTAIN</u></p> <p>Students must maintain a mark of no less than 60% in all courses</p>
--	---

<p style="text-align: center;"><u>ADMISSION REQUIREMENTS</u></p> <ul style="list-style-type: none"> • Grade 12U Biology (SBI4U) • Grade 12U Calculus and Vectors (MCV4U) • Grade 12U Chemistry (SCH4U) • Grade 12U English (ENG4U) <p>Recommended courses: Grade 12U Physics (SPH4U)</p>	<p style="text-align: center;"><u>ADMISSION AVERAGE</u></p> <p>Percent with an average of...</p> <ul style="list-style-type: none"> • 95% or more - 26.9% • Between 90% and 94% - 42.1% • Between 85% and 89% - 25.7% • Between 80% and 84% - 5.3% <p>Overall admission average: 91.5%</p>
--	---

<p style="text-align: center;"><u>FIRST AND SECOND YEAR COURSES AT A GLANCE</u></p> <p><i>FIRST YEAR:</i></p> <ul style="list-style-type: none"> • Biology, Chemistry, Mathematics, Physics • Psychology 1000 is required for students in the Neuroscience interdisciplinary <p><i>SECOND YEAR:</i></p> <ul style="list-style-type: none"> • Biochemistry, Cell Biology, Genetics, Organic Chemistry, Statistics and/or courses specific to your module of interest. 	<p style="text-align: center;"><u>ABOUT THIRD AND FOURTH YEAR COURSES AT A GLANCE</u></p> <ul style="list-style-type: none"> • The focus in these years is studying one or more of the basic medical science disciplines, depending on the module(s) selected. • Fourth year and the research projects required in the Honours Specializations (or the advanced lab in Interdisciplinary Medical Sciences) build on basic medical science courses taken in third year.
--	---

CAREER OPPORTUNITIES

Many graduates with BMSc degrees and basic medical science modules go on to professional schools (dentistry, medicine, veterinary medicine, pharmacy, physical therapy, chiropractic) and graduate studies (MSc and/or PHD)

Other career/employment opportunities include:

- Law (bioethics, patent development for medical products)
- Business (biotechnology - marketing, research and development, quality control)
- Government Laboratories (agriculture, marine, and environmental sciences)
- Industry (pharmaceuticals, biotechnology, biosafety regulation and enforcement)
- Teaching at either the elementary, secondary, or post-secondary level

<p style="text-align: center;"><u>FIRST YEAR TUITION AND FEES</u></p> <p>Total: \$7,802.65</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: \$135.60 Faculty Donation Fee: \$75.00</p>	<p style="text-align: center;"><u>UPPER YEAR TUITIONS AND FEES</u></p> <p>Total: \$7,667.05</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: N/A Faculty Donation Fee: \$75.00</p>
---	---

CHECK [EINFO](#) AND [CUDO \(COMMON UNIVERSITY DATA OF ONTARIO\)](#) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

SCIENCES

Western Science is the right place for you if you want to surround yourself with the top-performing students in Ontario; if you seek the freedom to craft your degree path; if you desire access to a wide variety of **high-impact** activities, courses, and **programs** that will challenge and equip you with technical expertise and professional competencies.

<u>MODULES</u>	<u>EIGHT DISCIPLINE-SPECIFIC STREAMS</u>
The Western Science undergraduate academic experience is unique in Canada, offering each student the opportunity to design a custom course of study that aligns best with their career aspirations. Western Science is home to an Integrated Science program as well as eight discipline-specific streams that allow students to craft an academic path that will guide them to the career they want. Whether you want to tackle the scientific challenges facing modern-day society from a multi-disciplinary perspective or explore specific science disciplines in depth, the Faculty of Science has an engaging learning path especially for you.	<p><i>LIFE SCIENCE:</i></p> <ul style="list-style-type: none"> ● Biology ● Basic Medical Science <p><i>COMPUTER AND MATHEMATICAL SCIENCE:</i></p> <ul style="list-style-type: none"> ● Computer Science ● School of Mathematical and Statistical Science <p><i>PHYSICAL SCIENCE:</i></p> <ul style="list-style-type: none"> ● Chemistry ● Physics & Anatomy <p><i>SUSTAINABILITY SCIENCES:</i></p> <ul style="list-style-type: none"> ● Earth Science ● Environmental Science

<u>ADMISSION REQUIREMENTS</u>	<u>ADMISSION AVERAGE</u>
<p>Six Grade 12U or M-level credits including:</p> <ul style="list-style-type: none"> ● Grade 12 English (ENG4U) ● Grade 12 Calculus and Vectors (MCV4U) <p>+Two courses from...</p> <ul style="list-style-type: none"> ● Grade 12 Advanced Functions (MHF4U) ● Grade 12 Biology (SBI4U) ● Grade 12 Chemistry (SCH4U) ● Grade 12 Computer and Information Science (ICS4U) ● Grade 12 Earth and Space Sciences (SES4U) ● Grade 12 Math and Data Management (MDM4U) ● Grade 12 Physics (SPH4U) <p>+2 Grade 12U/M Courses</p>	<p>Percent with entering average of...</p> <ul style="list-style-type: none"> ● 95% or more - 26.9% ● Between 90% and 94% - 42.1% ● Between 85% and 89% - 25.7% ● Between 80% and 84% - 5.3% <p>Overall admission average: 91.5%</p>

COURSES

Courses are subjective to which module and discipline you choose in Western Science... however to find out more information on the type of courses you would take go to this website:

https://www.uwo.ca/sci/undergraduate/current_students/first_year_courses.html

<u>FIRST YEAR TUITION AND FEES</u>	<u>UPPER YEAR TUITIONS AND FEES</u>
<p>Total: \$7,802.65</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: \$135.60 Faculty Donation Fee: \$75.00</p>	<p>Total: \$7,667.05</p> <p>Tuition: \$6,050.00 Student Organization Fees: \$395.08 UWO Student Ancillary Fees: \$513.02 Transit Pass: \$273.50 Health Plan: \$183.44 Dental Plan: \$177.01 Orientation Week Fee: N/A Faculty Donation Fee: \$75.00</p>



NURSING

Brock University's nursing program is known for its rigorous curriculum, knowledgeable faculty and demanding standards. At Brock, knowledge learned in the classroom is integrated with clinical practice beginning in our nursing students' first year. By placing our students in hospital settings and working with the community throughout the entire program, there is an added level of quality and familiarity, which provides students every opportunity to excel. Our nursing graduates leave Brock with a well-regarded reputation for excellence and also have the knowledge and skills to be health care leaders in Niagara, and beyond. Our new teaching facility provides Brock nursing students with an even better advantage in developing the necessary skills to be successful in their careers. These spaces include a: Simulation lab, Clinical lab, Isolated room for critical care training, Primary health care office, Debrief room, and a Community apartment for training our students in nursing home visits. Each space has been carefully designed to nurture student learning in a safe environment with state-of-the-art teaching facilities.

<u>ADMISSION REQUIREMENTS</u>	<u>ADMISSION AVERAGE</u>
<p>You must have a minimum of 75% in each course</p> <ul style="list-style-type: none"> ● Grade 12U Biology (SBI4U) ● Grade 12U Chemistry (SCH4U) ● Grade 12U English (ENG4U) ● Grade 12U Advanced Function (MHF4U) OR any 4U Math course 	<p>Percent with entering average of...</p> <ul style="list-style-type: none"> ● 95% or more - 18.8% ● Between 90% and 94% - 39.6% ● Between 85% and 89% - 41.7% ● Between 80% and 84% - 0.0% <p>Overall admission average: 91.0%</p>
<u>FIRST YEAR COURSES</u>	<u>SECOND YEAR COURSES</u>
<ul style="list-style-type: none"> ● Professional and Therapeutic Communication (NUSC 1P10) ● Nursing and Health Promotion: The Canadian Context (NUSC 1P12) ● Nursing Theory: Experiencing Illness and Hospitalization (NUSC 1P14) ● Nursing Practice: Experience Illness and Hospitalization (NUSC 1P16) ● Health Assessment (NUSC 1P30) ● Introduction to Biology I (BIOL 1P91) ● Introduction to Biology II (BIOL 1P92) ● Foundations of Human Anatomy and Physiology (KINE 1P99) ● Foundations of Psychology (PSYC 1F90) 	<ul style="list-style-type: none"> ● Nursing Theory: Nursing Care of the Young Family (NUSC 2P10) ● Nursing Practice: Nursing Care of the Young Family (NUSC 2P12) ● Nursing Theory: Care of the Acutely III Client (NUSC 2P14) ● Nursing Practice: Care of the Acutely III Client (NUSC 2P16) ● Pathophysiology (NUSC 2P32) ● Nursing Research (NUSC 2P70) ● Nutrition in Health Care (HLSC 2P92) ● Principles of Pharmacology (HLSC 3P19) ● Human Physiology (KINE)
<u>THIRD YEAR COURSES</u>	<u>FOURTH YEAR COURSES</u>
<ul style="list-style-type: none"> ● Quantitative Analysis (NUSC 3P08) ● Experiencing Chronicity (NUSC 3P12) ● Promoting Mental Health (NUSC 3P14) ● Nursing Ethics (NUSC 3P20) ● Health Education (NUSC 3P50) ● Nursing Practicum: Experiencing Chronicity (NUSC 3P90) ● Nursing Practicum: Promoting Mental Health (NUSC 3P92) ● Nursing Practicum: Intersession (NUSC 3P94) ● Medical Microbiology (HLSC 3P97) ● One Humanities context elective 	<ul style="list-style-type: none"> ● Community Health Nursing (NUSC 4F92) OR Community Health Nursing (International) (NUSC 4F93) ● Integrated Nursing Practicum I (NUSC 4F96) ● Integrated Nursing Practicum II (NUSC 4F98) ● Leadership in Nursing and Management (NUSC 4P20) ● Applied Nursing Research (NUSC 4P50) ● Trend and Issues in Professional Nursing (NUSC 4P60)

UNDERGRADUATE FEES ESTIMATOR

- For an estimate of undergraduate fees for Brock tuition, residence, meal plans, and other optional fees check out this website: <https://brocku.ca/safa/undergraduate-fees-estimator/>

CAREER OUTCOMES

- Hospital Care
- Public Health
- Research
- Policy Development
- Administration

CHECK EINFO AND CUDO (COMMON UNIVERSITY DATA OF ONTARIO) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

MEDICAL SCIENCES

Our program focuses on the biophysical foundation of human health, with courses in anatomy, physiology, chemistry and biology, in addition to the social aspects of health. It includes advanced courses with laboratory components in clinical epidemiology, human immunology, medical microbiology, parasitology, pharmacology, cardiology and pathology. Ample opportunities for experiential learning exist within the program at places such as the Brock-Niagara Centre for Health and Well-Being. Students will complete course work and have research opportunities in the state-of-the-art Cairns Family Health and Bioscience Research Complex at the University.

<u>ADMISSION REQUIREMENTS</u>	<u>ADMISSION AVERAGE</u>
<ul style="list-style-type: none"> ● Grade 12U English (ENG4U) ● Grade 12U Biology (SBI4U) ● Grade 12U Chemistry (SCH4U) ● Grade 12U Mathematics of Data Management (MDM4U) - PREFERRED OR one 4U Math <p>A minimum of 70% is required in Chemistry (SCH4U)</p> <p>Recommended subjects:</p> <ul style="list-style-type: none"> ● Exercise Science (PSE4U) ● Introduction Kinesiology (PSK4U) ● Data Management (MDM4U) 	<p>Percent with entering average of...</p> <ul style="list-style-type: none"> ● 95% or more - 4.8% ● Between 90% and 94% - 9.7% ● Between 85% and 89% - 14.2% ● Between 80% and 84% - 21.9% ● Between 75% and 79% - 28.7% <p>Overall admission average: Mid 80s</p>

HONOURS PROGRAM - ALL INFORMATION INCLUDED IN THE LINKS

<u>FIRST YEAR COURSES</u>	<u>SECOND YEAR COURSES</u>
<ul style="list-style-type: none"> ● Introduction to Health Sciences (HLSC 1F90) ● Introduction to Biology I (BIOL 1F91) ● Introduction to Biology II (BIOL 1F92) ● Chemical Principles and Properties I (CHEM 1P91) ● Chemical Principles and Properties II (CHEM 1P92) ● One credit from: <ul style="list-style-type: none"> → Introductory Statistics (MATH 1F92) → Practical Statistics (MATH 1P98) ● And one-half elective credit: <ul style="list-style-type: none"> → Applied Statistics for Life Sciences (MATH 1P99) ● And one-half elective credit: <ul style="list-style-type: none"> → see program notes 1, 4 and 5 (Program notes are included in the link) ● One Humanities context credit 	<ul style="list-style-type: none"> ● Biostatistics I (HLSC 2P07) ● Principles of Human Physiology (HLSC 2P09) ● Research Methods in Health (HLSC 2P27) ● Human Systems Anatomy (HLSC 2P95) ● Human Musculoskeletal Anatomy (HLSC 2P96) ● Human Physiology (BIOL 2P97) ● One Science elective credit numbered 2(alpha)00 to 2(alpha)99 (see program notes, 2, 3, 4) ● One elective credit (see program notes, 1, 4, 5)
<u>THIRD YEAR COURSES</u>	<u>FOURTH YEAR COURSES</u>
<ul style="list-style-type: none"> ● The Health of Canadian Society (HLSC 2P21) ● Medical Microbiology (HLSC 3P97) ● One credit from: <ul style="list-style-type: none"> → Nutrition (HLSC 2P91) → Nutrition in Health Care (HLSC 2P92) → Human Immunology (HLSC 3P02) → Human Endocrinology (HLSC 3P09) → Principles of Pharmacology (HLSC 3P19) → Cardiac Pathophysiology (HLSC 3P90) ● One elective credit (see program note 4) ● Two Science elective credits (see program notes 1, 2, 3, 4, and 5) 	<ul style="list-style-type: none"> ● Research Methods in Epidemiology (HLSC 4P50) ● Human Pathology (HLSC 4P95) ● Clinical Epidemiology (HLSC 4P99) ● One HLSC credit numbered 3(alpha)90 or above ● One and one-half credits from Science courses numbered 2(alpha)90 or above (see program note 2) ● One elective credit (see program notes 1, 4, and 5)

UNDERGRADUATE FEES ESTIMATOR

- For an estimate of undergraduate fees for Brock tuition, residence, meal plans, and other optional fees check out this website: <https://brocku.ca/safa/undergraduate-fees-estimator/>

CAREER OUTCOMES

- Physician
- Dentist
- Optometrist
- Chiropractor
- Pharmacist
- Health Researcher

CHECK ENFQ AND CUDO (COMMON UNIVERSITY DATA OF ONTARIO) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

KINESIOLOGY

We offer courses that allow students to create, integrate and apply knowledge from the biosciences, social sciences, and humanities in the transdisciplinary study of human movement across the lifespan. We have high expectations for student performance which has a combined emphasis on challenging intellectual/creative work and academic effort. We offer enriched learning experiences gained through interactions with faculty members both within and outside the traditional classroom environment.

YOU MAY PURSUE ONE OF THE FOLLOWING OPTIONS

<p>BACHELOR OF KINESIOLOGY (BKin)</p> <p>This degree emphasizes the biophysical, behavioural, and socio-cultural aspects of kinesiology, including exercise prescription and rehabilitation, fitness programming and clinical assessment. This degree trains effective health professionals who will transfer scientific theory into practice.</p>	<p>BACHELOR OF SCIENCE OF KINESIOLOGY (BScKin)</p> <p>This degree provides a highly competent science background, with an emphasis for those who wish to concentrate on the science of human movement and will prepare you to meet the requirements for post-graduate degree programs in a variety of allied health professions.</p>
<p>ADMISSION REQUIREMENTS (BKin)</p> <ul style="list-style-type: none"> • Grade 12U English (ENG4U) • Grade 12U Biology (SBI4U) • One Grade 12U Math <ul style="list-style-type: none"> → Preferred: Advanced Functions (MHF4U) <p>Recommended subjects:</p> <ul style="list-style-type: none"> • Exercise Science (PSE4U) • Introductory Kinesiology (PSK4U) • Advanced Functions (MHF4U) 	<p>ADMISSION REQUIREMENTS (BScKin)</p> <ul style="list-style-type: none"> • Grade 12U English (ENG4U) • Advanced Functions (MHF4U) OR Calculus and Vectors (MCV4U) <ul style="list-style-type: none"> → Minimum of 70% in Math • Grade 12U Biology (SBI4U) <p>Recommended subjects:</p> <ul style="list-style-type: none"> • Exercise Science (PSE4U) • Physics (SPH4U) • Chemistry (SCH4U) • Introductory Kinesiology (PSK4U)
<p>ADMISSION AVERAGE (BKin)</p> <ul style="list-style-type: none"> • Maximum: 85% or more • Minimum: mid 70s 	<p>ADMISSION AVERAGE (BScKin)</p> <ul style="list-style-type: none"> • Maximum: High 70s • Minimum: 70%
<p>COURSES BKin</p> <p>Click the link to get a better understanding of the courses in this program.</p> <p>YEAR 1:</p> <ul style="list-style-type: none"> • Human Systems Anatomy (KINE 1P90) • Musculoskeletal Anatomy (KINE 1P98) • Research Design and Evaluation (KINE 2P08) • Health Promotion and Policy (KINE 2P41) • Introduction to Biology I (BIOL 1P91) • Introduction to Biology II (BIOL 1P92) • One Humanities context credit or one Social Sciences context credit. • One elective credit <p>YEAR 2:</p> <ul style="list-style-type: none"> • Foundations of Motor Behaviour (KINE 2P05) • Human Physiology (KINE 2P09) • Human Growth and Development (KINE 2P84) • Physiological Responses to Physical Activity (KINE 2P90) • Quantitative Analysis (KINE 3P08) • Biomechanics (KINE 3P10) • Psychology of Health Behaviours (KINE 2P85) • Sport Psychology (KINE 2P95) • Social History of Physical Education and Sport (KINE 2P91) • Sociology of Sport I (KINE 3P70) • One elective credit 	<p>COURSES BScKin</p> <p>Click the link to get a better understanding of the courses in this program.</p> <p>YEAR 1:</p> <ul style="list-style-type: none"> • Human Systems Anatomy (KINE 1P90) • Musculoskeletal Anatomy (KINE 1P98) • Introduction to Biology I (BIOL 1P91) • Introduction to Biology II (BIOL 1P92) • Calculus with Application (MATH 1P97) • Introductory Physics I with Laboratory (PHYS 1P91) • One Social Science context credit • One Humanities context credit <p>YEAR 2:</p> <ul style="list-style-type: none"> • Foundations of Motor Behaviour (KINE 2P05) • Research Design and Evaluation (KINE 2P08) • Human Physiology (KINE 2P09) • Human Growth and Development (KINE 2P84) • Physiological Responses to Physical Activity (KINE 2P90) • Psychology of Health Behaviours (KINE 2P85) • Sport Psychology (KINE 2P95) • Social History of Physical Education and Sport (KINE 2P91) • Sociology of Sport I (KINE 3P70) • One-half Science elective credit • One elective credit numbered 2(alpha)00 or above
<p>YEAR 3:</p> <ul style="list-style-type: none"> • Fitness Assessment and Exercise Prescription Across the Lifespan (KINE 3P02) • Motor Learning (KINE 3P05) • Training Principles (KINE 3P91) • Motor Control (KINE 3P94) • Clinical Biomechanics (KINE 4P10) • The humanities context credit or Social Sciences context credit (not taken in year 1) • One and one-half elective credits <p>YEAR 4:</p> <ul style="list-style-type: none"> • Occupational Ergonomics (KINE 4P01) • Cognitive Ergonomics (KINW 4P05) • Healthcare Ethics (KINE 4P71) • One and one-half KINE numbered 3(alpha)90 or above • One elective credit • One and one-half elective credits numbered 2(alpha)00 or above 	<p>YEAR 3:</p> <ul style="list-style-type: none"> • Fitness Assessment and Exercise Prescription Across the Lifespan (KINE 3P02) • Motor Learning (KINE 3P05) • Quantitative Analysis (KINE 3P08) • Biomechanics (KINE 3P10) • Training Principles (KINE 3P91) • Motor Control (KINE 3P94) • One Science elective credit • One elective credit numbered 2(alpha)00 or above <p>YEAR 4:</p> <ul style="list-style-type: none"> • Occupational Ergonomics (KINE 4P01) • Cognitive Ergonomics (KINW 4P05) • Clinical Biomechanics (KINE 4P10) • Healthcare Ethics (KINE 4P71) • One credit from KINE 3P92, 4P08, 4P94, 4P97, 4P98 • One elective credit numbered 2(alpha)00 or above

UNDERGRADUATE FEES ESTIMATOR

- For an estimate of undergraduate fees for Brock tuition, residence, meal plans, and other optional fees check out this website: <https://brocku.ca/safa/undergraduate-fees-estimator/>

CAREER OUTCOMES

- Physician
- Registered Kinesiologist
- Paramedic
- Chiropractor
- Athletic Therapist

CHECK [ENFO](#) AND [CUDO \(COMMON UNIVERSITY DATA OF ONTARIO\)](#) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES



HEALTH SCIENCES

Focus on preventing illness, not simply treating people once they get sick. At Waterloo, you'll learn how to promote healthy lifestyles, improve health care systems, and bring together the science and the social aspects of health. Whether you opt for the regular or co-op stream, Health Sciences gives you the skills for improving human health, along with lots of room for electives. And with five specializations and dozens of campus-wide minors, you can tailor your studies to your specific areas of interest. You'll graduate with the skills to tackle global health pandemics such as COVID-19, transform public health policy, and pave the way for new medical breakthroughs.

Program highlights

- Science plus. Build a strong foundation in science and learn about human health and disease prevention. You'll be set for a career in health and professional programs like medicine.
- Be more than a number. With small tutorial sizes right from first year, you'll really get to know your classmates — and your world-renowned professors.

<u>FIVE SPECIALIZATIONS</u>	<u>ADMISSION AVERAGES AT A GLANCE</u>
You can add additional areas of expertise to your degree by including one or more of the areas of focus in the program. <ul style="list-style-type: none"> • Addictions, Mental Health, and Policy • Gerontology • Health Informatics • Health Research • Pre-Clinical Specialization 	Regular: Low 80s Co-op: Mid 80s

<u>ADMISSION REQUIREMENTS</u>	<u>ADMISSION AVERAGE</u>
Ontario students must have six Grade 12U and/or M courses including: <ul style="list-style-type: none"> • Any Grade 12U English - min 70% • Any Grade 12U Mathematics - min 70% • Grade 12U Biology (SBI4U) - min 70% • Grade 12U Chemistry (SCH4U) - min 70% Recommended courses for Pre-Clinical specialization: <ul style="list-style-type: none"> • Advanced Functions (MHF4U) • Physics (SPH4U) 	Percent with an average of... <ul style="list-style-type: none"> • 95% or more - 8.1% • Between 90% and 94% - 27.1% • Between 85% and 89% - 36.2% • Between 80% and 84% - 28.1% • Between 75% and 79% - 0.5% Overall admission average: 87.6%

<u>REGULAR SYSTEM OF STUDY</u>	<u>CO-OPERATIVE SYSTEM OF STUDY</u>
<p style="text-align: center;">FIRST YEAR COURSES</p> <ul style="list-style-type: none"> • Sociology of Activity, Health, and Well-being (AHS 107) • Introductory Cell Biology (BIOL 130) • Cell Biology Laboratory (BIOL 130L) • General Chemistry I (CHEM 120) • General Chemistry Laboratory I (CHEM 120L) • Introduction to HHealth 1 (HLTH 101) • Principles of Human Physiology I (BIOL 273) • General Chemistry II (CHEM 123) • General Chemistry Laboratory II (CHEM 123L) • Introduction to Health II (HLTH 102) • Introductory Psychology (PSYCH 101) • One elective <p style="text-align: center;">SECOND YEAR COURSES</p> <ul style="list-style-type: none"> • Aging and Health (HLTH 201) • Quantitative Approaches to Health Science (HLTH 204) • Introduction to Health Research (HLTH 205) • Human Biochemistry (KIN 217) • One elective • Genetics (BIOL 239) • Introduction to Health Informatics (HLTH 230) • Canadian Health Systems (HLTH 245) • Social Determinants of Health (HLTH 260) • One elective <p style="text-align: center;">THIRD YEAR COURSES</p> <ul style="list-style-type: none"> • Principles of Epidemiology (HLTH 333) • Applied Public Health Ethics (HLTH 380) • Three electives • Principles of Human Physiology II (BIOL 373) • Development, Aging, and Health (HLTH 310) • Ecological Determinants of Health (HLTH 370) • Two electives <p style="text-align: center;">FOURTH YEAR COURSES</p> <ul style="list-style-type: none"> • Health Apprenticeship (HLTH 474) • Four electives • Five electives 	<p style="text-align: center;">FIRST YEAR COURSES</p> <ul style="list-style-type: none"> • Sociology of Activity, Health, and Well-being (AHS 107) • Introductory Cell Biology (BIOL 130) • Cell Biology Laboratory (BIOL 130L) • General Chemistry I (CHEM 120) • General Chemistry Laboratory I (CHEM 120L) • Introduction to HHealth 1 (HLTH 101) • Principles of Human Physiology I (BIOL 273) • General Chemistry II (CHEM 123) • General Chemistry Laboratory II (CHEM 123L) • Introduction to Health II (HLTH 102) • Introductory Psychology (PSYCH 101) • One elective <p style="text-align: center;">SECOND YEAR COURSES</p> <ul style="list-style-type: none"> • Aging and Health (HLTH 201) • Quantitative Approaches to Health Science (HLTH 204) • Introduction to Health Research (HLTH 205) • Human Biochemistry (KIN 217) • One elective • Genetics (BIOL 239) • Introduction to Health Informatics (HLTH 230) • Canadian Health Systems (HLTH 245) • Social Determinants of Health (HLTH 260) • One elective <p style="text-align: center;">THIRD YEAR COURSES</p> <ul style="list-style-type: none"> • Principles of Human Physiology II (BIOL 373) • Development, Aging, and Health (HLTH 310) • Ecological Determinants of Health (HLTH 370) • Two electives • Principles of Epidemiology (HLTH 333) • Applied Public Health Ethics (HLTH 380) • Three electives <p style="text-align: center;">FOURTH YEAR COURSES</p> <ul style="list-style-type: none"> • Competencies in Health (HLTH 480) • Four electives • Five electives

UNDERGRADUATE FEES ESTIMATOR

- For information on tuition, living expenses, and additional fees visit this website: <https://uwaterloo.ca/future-students/financing/tuition>

CHECK ENFO AND CUDO (COMMON UNIVERSITY DATA OF ONTARIO) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

LIFE SCIENCES

Life Sciences is the study of living organisms, ranging from the very tiny world of microbiology and genetics to the physiology and zoology of the world's great mammals – with plants, botany, and more in between!

At Waterloo, Life Sciences is a group of related majors.

- [Biochemistry](#)
- [Biology](#)
- [Biomedical Sciences](#)
- [Psychology](#)

Each of the majors bring together disciplines such as biology, chemistry, physics, and math to help you learn how living systems work and interact. When you apply to Waterloo, you'll select one of the majors and get to do labs and experiments starting right in the first year. You can choose the [co-op program](#) or the [regular system of study](#) in all majors, except Biomedical Sciences, which is regular only. You'll graduate with a Bachelor of Science in your major (Bachelor of Science in Honours Biochemistry, for example) and will be well prepared for careers in science or for further education in specialized graduate programs and health professions such as medicine, optometry, and pharmacy.

<u>ADMISSION REQUIREMENTS</u>	<u>ADMISSION AVERAGES</u>
<ul style="list-style-type: none"> • Grade 12U English (ENG4U) - min 70% • Grade 12U Advanced Functions (MHF4U) - min 70% • Grade 12U Calculus and Vectors (MCV4U) - min 70% <p>Two of ...</p> <ul style="list-style-type: none"> • Grade 12U Biology • Grade 12U Chemistry • Grade 12U Earth and Space Science • Grade 12U Mathematics of Data Management • Grade 12U Physics <p>Recommended:</p> <ul style="list-style-type: none"> • Grade 12U Biology (SBI4U) • Grade 12U Chemistry (SCH4U) • Grade 12U Physics (SPH4U) 	<p>Percent with entering average of...</p> <ul style="list-style-type: none"> • 95% or more - 8.1% • Between 90% and 94% - 27.1% • Between 85% and 89% - 36.2% • Between 80% and 84% - 28.1% • Between 75% and 79% - 0.5% <p>Admission averages: Low 80s</p>

**COURSES ARE SUBJECTIVE TO THE MAJOR YOU CHOOSE TO PURSUE IN THE LIFE SCIENCES PROGRAM
HERE ARE THE FIRST YEAR COURSES (AT A GLANCE) YOU MAY ENCOUNTER IN EACH MAJOR**

<u>BIOCHEMISTRY</u>	<u>BIOMEDICAL SCIENCES</u>
<p>In your first year, you will take a mixture of Biology, Mathematics, Chemistry, and Physics courses to give you the foundations for your upper-year classes. After first year, most of your classes will be Chemistry courses with some Biology courses.</p> <p>Learn more about courses you will take for your Biochemistry degree.</p>	<p>In your first year, you will take a mixture of Biology, Chemistry, and Physics courses to give you the foundations for your upper-year classes. After first year, most of your classes will be Chemistry and Biology courses</p> <p>Learn more about courses you will take for your Biomedical Sciences degree.</p>
<u>BIOLOGY</u>	<u>PSYCHOLOGY</u>
<p>In your first year, you will take a mixture of Biology, Mathematics, and Chemistry courses to give you the foundations for your upper-year classes. After first year, most of your classes will be Biology courses.</p> <p>Learn more about courses you will take for your Biology degree.</p>	<p>In your first year, you will take a mixture of Psychology, Biology, and Chemistry courses to give you the foundations for your upper-year classes. After first year, most of your classes will be Psychology and Science courses</p> <p>Learn more about courses you will take for your Psychology degree</p>

UNDERGRADUATE FEES ESTIMATOR

- For information on tuition, living expenses, and additional fees visit this website: <https://uwaterloo.ca/future-students/financing/tuition>

CAREER OUTCOMES

- Medicine
- Optometry
- Pharmacy

CHECK [EINFO](#) AND [CUDO \(COMMON UNIVERSITY DATA OF ONTARIO\)](#) FOR MORE INFORMATION ABOUT ADMISSION AVERAGES

SCIENCE

Science drives the human race forward by increasing our understanding of the world. It helps us uncover the past while discovering what the future holds. Science takes us beyond our limits into a universe of infinite possibilities. At Waterloo, you'll use unique tools, technologies, and innovation to push the boundaries of science. Whether it's through our integrated programs or delving into pure science, we'll equip you with the skills and knowledge you need to succeed here and in the future.

SCIENCE PROGRAMS AND MAJORS

<ul style="list-style-type: none">• Biochemistry• Biology• Biomedical Sciences• Biotechnology/Chartered Professional Accounting• Chemistry• Earth Sciences• Environmental Science	<ul style="list-style-type: none">• Honours Science• Life Physics• Life Sciences• Physical Sciences• Psychology• Materials and Nanosciences• Mathematical Physics	<ul style="list-style-type: none">• Medicinal Chemistry• Optometry• Pharmacy• Physics• Physics and Astronomy• Science and Aviation• Science and Business
---	---	--

For information on the programs within the Faculty of Science, click on the links!

ADMISSION AVERAGES

Percent with entering average of...

- 95% or more - 8.1%
- Between 90% and 94% - 27.1%
- Between 85% and 89% - 36.2%
- Between 80% and 84% - 28.1%
- Between 75% and 79% - 0.5%

UNDERGRADUATE FEES ESTIMATOR

- For information on tuition, living expenses, and additional fees visit this website: <https://uwaterloo.ca/future-students/financing/tuition>

Guelph



Bio-Medical - Graduates play a role in building a healthier society with bioMedical science. Focus on the prevention of disease and the maintenance of good health; on the study of nutrition, physiology, anatomy, genetics and epidemiology. Plan, conduct and analyze your own research project and apply the knowledge and skills gained through this major to professional studies, graduate programs or a career in the health sciences.

Veterinary Medicine - Before applying to veterinary school at the university of Guelph eight degree prerequisite courses: cell biology; biochemistry; genetics; statistics; two biological sciences; and two humanities and/or social sciences. Ontario Veterinary College education trains students to excel in veterinary medicine through a learner-centred curriculum and a history of innovation that continually sets the standard for excellence in veterinary medical education.

Nutritional and Nutraceutical - Tackle nutrition-related problems in the food, pharmaceutical and natural health product industries. Focus on the contribution of dietary intake to the growth and maintenance of biological functions. Understand how nutrients, phytochemicals, toxins and food processing products affect the body. Work in international health and nutrition organizations, government regulatory bodies and advisory agencies, or pursue related graduate studies.

<p style="text-align: center;">Programs Offered</p> <ul style="list-style-type: none"> -Bio-Medical science -Veterinary medicine -Nutritional and Nutraceutical Sciences 	<p style="text-align: center;">Courses year 1- 4</p> <p><u>Bio-Medical science</u>- For detailed course info and semester schedule, click the first link below and scroll to the bottom of the page</p> <p>.</p> <p><u>Veterinary medicine</u>- For detailed course info and semester schedule, click the second link below.</p> <p><u>Nutritional and Nutraceutical Sciences</u>- For detailed course info and semester schedule, click the third and fourth link below.</p> <p>Bio-Medical Science (BIOM) Bachelor of Science (B.Sc.) X. Degree Programs 2018-2019 Undergraduate Calendar Academic requirements - OVC Recruitment Undergraduate Courses Human Health & Nutritional Sciences NUTR*4330 Applied Nutritional and Nutraceutical Sciences II</p>
<p style="text-align: center;">Requirements (Grades)</p> <p><u>Bio-Medical science</u>- For BioMedical Science at the university of guelph two of three courses must be completed in high school. Biology, Chemistry and Physics at university level (4U) An overall average of 75% is necessary for basic admission to the University of Guelph, an average of 85% or higher is required for acceptance into the Biomedical Science program.</p> <p><u>Veterinary medicine</u>-In high school, choose the academic stream and take all the science, math and English prerequisites necessary. Complete at least two years (4 semesters) of full time studies of a Bachelor's degree program.</p> <p>Prerequisite Courses (After 2 years of university)</p> <ul style="list-style-type: none"> -2 Biological Sciences = 1.0 credits (with recommended emphasis on animal biology) -1 Cell Biology = 0.5 credit -Genetics = 0.5 credit -Biochemistry = 0.5 credit -Statistics = 0.5 credit -2 Humanities/social sciences = 1.0 credit (Consider topics such as ethics, logic, critical thinking, determinants of human behaviour and human social interaction.) 	<p style="text-align: center;">Average to maintain</p> <p><u>Biomedical science</u>- Students who are admitted into the Biomedical Science major from high school must meet additional requirements to continue in the major. Continuation from first to second year is based on the cumulative average in the first two semesters (total of 5.00 credits). Students with a minimum average of 75% average will be in continuation of this major. For students with a 70-74.9% average, continuation will be competitive based on available spaces. Students with an average below 70% will be changed to the Biological Science major.</p> <p><u>Veterinary medicine</u>-The two years prior to veterinary school in which you are taking to become a veterinarian must obtain a 75% or higher in both first and second year course averages. While in Veterinary medicine school the average to maintain varies on stream, however all streams must obtain at least an 80% average once accepted into the program.</p> <p><u>Nutritional and Nutraceutical Sciences</u>- Once admitted in the Nutrition and Nutraceutical grades above 75% in each course are required to remain in the program. Marks below this percent will be suggested to switch programs.</p>

Nutritional and Nutraceutical Sciences- Courses below are prerequisites taken in your first year at Guelph, to be admitted into the nutrition and nutraceutical program.

Nutritional and Nutraceutical Sciences: 78-83%

Human Kinetics: 79-84%

Biomedical Sciences: 84-89%

More info linked below,

[Admission | Human Health & Nutritional Sciences](#)

**Prices
(fall and winter semesters, per year)**

Biomedical science- \$6,936.78

Veterinary medicine- \$10,127.59

Nutritional and Nutraceutical Sciences-\$6,936.78

Meal plans

2021 - 2022 Rates (per semester)

Plan Size	Amount
Minimum	\$2,190.00
Light	\$2,550.00
Full	\$2,860.00
Plus	\$3,115.00
Varsity	\$3,270.00

For more info on parking ,OSAP, and financial support offered by the university of Guelph click the link below

[Tuition and Fees | Student Financial Services](#)

Career Opportunities

Bio-Medical science- Physician, Dentist, Veterinarian, professor, Scientist, Medical Sales.

Veterinary medicine-Research, Veterinary Clinic Doctor, etc.

Nutritional and Nutraceutical Sciences-Health Canada, The Canadian Food Inspection Agency, Pharmaceutical companies, Dietitian, Naturopathic medicine etc.

Program statistics

Biomedical science- (target enrollment-71)

Veterinary medicine- (target enrollment- depends on how many students enroll per year, very competitive)

Nutritional and Nutraceutical Sciences- (target enrollment-150)

Links for more info

[Undergraduate Calendar | Registrarial Services](#)

[Doctor of Veterinary Medicine | Undergraduate Admission 2021](#)

[NUTR*4330 Applied Nutritional and Nutraceutical Sciences II](#)



Nursing-Graduates are prepared to be professional nurses who will practice in a variety of health-care settings. Central to our mission is the preparation of nurses who will work to enhance the quality of health of individuals, families, communities and society. McMaster’s current nursing curriculum uses a problem-based, small group, self-directed educational model.

Health Science-The Bachelor of Health Sciences (Honours) Program (BHSc) uses a unique interdisciplinary approach to the study of health, wellness and illness. It offers students an understanding of health from biological, behavioural and population-based perspectives, through the integration of foundational and health sciences.

The BHSc (Honours) Program is the only program in Ontario that draws on a full range of departments within health sciences, including clinical departments of Medicine, Pathology & Molecular Medicine, Psychiatry &

Behavioural Neurosciences and Clinical Epidemiology & Biostatistics. Exposure to health care practitioners and applied researchers will lend relevance and scope to the foundation sciences, which will form the basis of the students’ experiences.

Medicine- The program is designed to involve medical students with a broad range of human health problems and with early exposure to patients. There are also opportunities for students to gain education and experience in more remote Northern Canadian areas or in an international setting. The program is three years in length and runs for 11 months of the year. In recent years, enrolment has increased to 203 places with the addition of the Waterloo Regional and the Niagara Regional campuses.

<p style="text-align: center;">Programs Offered</p> <p>-Nursing -Health/life Science -Medicine</p>	<p style="text-align: center;">Courses year 1-4</p> <p><u>Nursing</u>- For detailed course info and semester schedule for years 1-4, click the first link below <u>Health/life Science</u>-For detailed course info and semester schedule for years 1-4, click the second link below <u>Medicine</u>-For detailed course info and semester schedule for years 1-4, click the third link below</p> <p>Course Listings - McMaster University Course Outlines McMaster BHSC https://mdprogram.mcmaster.ca</p>
<p style="text-align: center;">Requirements (Grades)</p> <p><u>Nursing</u>- Secondary school minimum requirement average: 85%</p> <p><u>Health/life Science</u>-Minimum Grade 12 average: 90% is required for consideration, along with a mandatory supplementary application.</p> <p><u>Medicine</u>- secondary school minimum average: 86% required for consideration.</p> <p>To be a qualified applicant for these three programs you must have all of the following six grade 12 courses completed by the end of grade 12: (1)</p> <p>English (ENG 4U_)</p> <p>Biology (SBI 4U_)</p> <p>Chemistry (SCH 4U_)</p> <p>One of the grade 12 math courses: Advanced Functions (MHF 4U_)</p> <p>Calculus & Vectors (MCV 4U_)</p>	<p style="text-align: center;">Average to maintain</p> <p><u>Nursing</u>- Students admitted into the nursing program at McMaster university must maintain a minimum grade point average of at least 5.0 (65-69%)at the end of the full school year to continue in the program. A student whose cumulative GPA is at least 4.5 may continue in the program and will be placed on program probation for the duration of one academic year. A student may be placed on program probation only once during the program. For more info click the first link listed below.</p> <p><u>Health/life Science</u>-Students admitted to the health science program must maintain marks between the 75%-80% mark. Marks from the end of the spring and winter term are looked at each year to ensure continuation of the program.</p> <p><u>Medicine</u>-There are many evaluation tests and clinicals in the duration of the medicine program at McMaster that are closely evaluated. (ex. MCAT) for more in depth info on grade averages to maintain visit the second link below.</p> <p>School of Nursing - McMaster University Academic Requirements and Criteria of Evaluation</p>

<p>Mathematics of Data Management (MDM 4U_)</p>	
<p style="text-align: center;">Prices</p> <p>The first link below allows you to adjust and add additional fees such as on/off campus fees, dorm fees, meal plan, and other personal needs for a more accurate price point.</p> <p><u>Nursing-</u> \$6,042.60 <u>Health/life Science-</u>\$6,042.60 <u>Medicine-</u>\$7,127.40</p> <p>Cost Estimator - Future Students McMaster University Fees & payment - Office of the Registrar McMaster University</p>	<p style="text-align: center;">Program statistics</p> <p><u>Nursing-</u> Graduating: 96%(Target enrollment-120) <u>Health/life Science-</u>(Target enrollment- 240) <u>Medicine-</u> (Enrollment rate- 86%)</p>
<p style="text-align: center;">Career Opportunities</p> <p><u>Nursing -</u>caring for children and adults in acute care medical or surgical settings, maternal/child (maternity), mental health, public health, visiting nursing, long term care, primary health care etc.</p> <p><u>Health/life Science-</u> Academic research ,Clinical research , Clinical diagnostics, Laboratory science, Pharmaceutical industry (development, regulation, quality control, and sales) Biotechnology industry (development, regulation, quality control, and sales</p> <p><u>Medicine-</u> PHD/MSc Metabolism and nutrition, Blood and vasculature, Cancer and genetics, Infection and immunity, Physiology/pharmacology</p>	<p style="text-align: center;">Links for more info</p> <p>Nursing - Future Students McMaster University School of Nursing - McMaster University Home Education Undergraduate Career Opportunities Medical Sciences – School of Graduate Studies</p>

Windsor



Nursing- The Windsor program combines equal doses of hands-on learning and academic excellence. Clinical practicum courses start in year one with a 1:8 instructor-student ratio and take place in a variety of healthcare settings throughout the first three years of the program. In fact, the Faculty of Nursing is partnered with more than 250 hospital and community agencies throughout southwestern Ontario. In the final year of their program, students gain independence as they work alongside a preceptor (1:1 ratio), completing a total of 384 hours in both hospital and community settings.

Biomedical Science- Calling all future health professionals! This program gives you a strong background in both biochemistry and biomedical sciences, fundamental to health and medicine. You'll be in a lab within the first two weeks of this program and get the chance to conduct undergraduate research with hands-on learning in courses like CURE. You'll get a chance to work alongside clinical

researchers and medical professionals to learn about funding, project management, communication and other issues of cancer and health research.

Kinesiology-Windsor students are leaders with strong critical thinking skills. Our grads go on to become registered kinesiologists, physicians, physiotherapists, teachers, researchers/consultants, fitness trainers and facility owners, marketing managers, coaches, and general managers of pro sports teams, just to name a few. Our grads are in demand —98% are employed in the first six months after graduation.

<p style="text-align: center;">Programs Offered</p> <p><u>-Nursing</u> <u>-Biomedical science</u> <u>-Kinesiology</u></p>	<p style="text-align: center;">Courses year 1-4</p> <p><u>Nursing-</u> Professional Nursing, Human Anatomy and Physiology, Clinical Practicum, Experiential Learning Lab, Pharmacology & Medication Management etc.</p> <p>Page 10, all mandatory courses are listed https://www.uwindsor.ca/nursing/sites/uwindsor.ca.nursing/files/undergraduate_academic_student_handbook_final_2019.pdf</p> <p><u>Biomedical science-</u> Human Anatomy, Genetics, Molecular Cell Biology, Cancer Undergraduate, Research Education (CURE), Principles of Neuroscience, Biotechnology Laboratory, Pharmacology for Health Sciences etc.</p> <p><u>Kinesiology-</u> Biomechanics, Exercise Physiology, Anatomy, Human Growth and Development, Ergonomics, Sport Psychology, Health and Wellness etc.</p> <p>For more info visit the links below for each program (either Nursing, BioMed or KInesiology) scroll down to explore opportunities, and academics for more in depth courses needed years 1-4. Nursing</p> <p>Biomedical Sciences - Undergraduate Program - University of Windsor - Windsor, Ontario, Canada</p> <p>Kinesiology - Undergraduate Program - University of Windsor - Windsor, Ontario, Canada</p>
<p style="text-align: center;">Requirements (Grades)</p> <p><u>Nursing-</u> Must have Biology/SBI4U, Chemistry/SCH4U</p>	<p style="text-align: center;">Average to maintain</p> <p><u>Nursing-</u> All nursing students are expected to achieve and</p>

<p>and one grade 12 level math. Secondary school average: 85% + <u>Biomedical science-</u> Advanced Functions/MHF4U, Chemistry/SCH4U, Biology/SBI4U. English/ENG4U/Calculus & Vectors/MCV4U Recommended: Physics/SPH4U. Secondary school average: 88% + <u>Kinesiology-</u> One of Biology/SBI4U, Chemistry/SCH4U, or Physics/SPH4U. English/ENG4U. Secondary school average: 83%</p>	<p>or maintain a grade of at least 60% in nursing theory, clinical/laboratory courses, exams, etc. Students who fail a clinical course may require remediation prior to re-taking the course to ensure competence for safe practice at the expected level in the nursing program. <u>Biomedical science-</u> All students apart of the biomedical program at university of windsor must maintain an average of 70% or higher their first year to continue on into the program where average marks are determined later in the program for year 2-4. <u>Kinesiology-</u> Kinesiology students must maintain an average of 77% while wishing to graduate with PHD and a minimum of 70% in the masters program.</p>
<p style="text-align: center;">Prices</p> <p>The first link below allows you to adjust and add additional fees such as on/off campus fees, dorm fees, meal plan, and other personal needs for a more accurate price point.</p> <p><u>Nursing-</u> \$ 2,899.90 (base tuition) <u>Biomedical science-</u> \$ 2,985.95 (base tuition) <u>Kinesiology-</u> \$ 2,985.95 (base tuition)</p> <p>Tuition Fee Estimator Finance Department</p>	<p style="text-align: center;">Program Statistics</p> <p><u>Nursing-</u> Employment rate from graduates: 98% <u>Biomedical science-</u> Employment rate from graduates: 93% <u>Kinesiology-</u> Employment rate from graduates: 98%</p>
<p style="text-align: center;">Career Opportunities</p> <p><u>Nursing-</u> Clinic nurse, community care nurse, health-care administrator, nurse practitioner, nurse educator etc.</p> <p><u>Biomedical science-</u> Professional school (medicine, pharmacy, dentistry), industrial and government research and development, health and biomedical research in graduate studies, clinical researcher etc.</p> <p><u>Kinesiology-</u> Professional school (medicine, pharmacy, dentistry, chiropractor, physiotherapist), registered kinesiologist, ergonomist, sport psychology consultant etc.</p>	<p style="text-align: center;">Links for more info</p> <p>Programs of Study - University of Windsor - Windsor, Ontario, Canada (uwindsor.ca) Nursing - Undergraduate Program - University of Windsor - Windsor, Ontario, Canada Biomedical-sciences Kinesiology</p>