

GRADUATE STUDIES 2021/22 INFORMATION SHEET

BIOCHEMISTRY

MSc, PhD

Biochemistry is central to the study of living systems at the molecular level, and research in the Department spans numerous interconnected fields, addressing problems that are important for understanding and treating human disease.

Several groups are studying human genetics, genome dynamics and epigenetics and the regulation of gene expression. Others are focused on protein structure and function, proteomics and cellular signalling.

Computational approaches and bioinformatics are becoming increasingly integrated into biochemical research. And new technologies are enabling efforts to engineer biological systems for research and biotechnology, ushering in the exciting new era of synthetic biology.

NEW: NON-THESIS MSc DEGREE OPTION

This is a one-year, course-based MSc degree. The non-thesis program is designed to challenge you to maximize your transferable skills in both independent and team-based projects within the biochemistry discipline.

You can apply for the PhD thesis program after completion of the non-thesis MSc.

CAREERS

With your graduate training in Biochemistry you can pursue professional school, post-doctoral research and advanced training or careers as a:

- Lab or Project Coordinator, Facility Manager
- Industrial Research Scientist or Technician
- Government Policy Advisor or Researcher
- Business and Management Consultant
- Research Associate or Technician
- Intellectual Property Specialist
- Sales/Account Representative
- Clinical Trials Coordinator

Graduates from our programs have pursued careers as a:

- Management Consultant, Bain and Company
- Scientist, STEMCELL Technologies
- Field Medical Advisor, Pfizer

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	NON-THESIS MSc	MSc	PhD
TIME TO COMPLETION	3 Terms (1 year)	6 Terms (2 years) 4 Terms (1.33 years) – Accelerated MSc	12 Terms (4 years) – Direct entry PhD 15 Terms (5 years) – Transfer MSc to PhD
ADMISSION REQUIREMENTS	<ul style="list-style-type: none"> BSc in biochemistry, biology, genetics, chemistry, cell biology, microbiology, physiology or closely related disciplines Minimum 78% GPA in the undergraduate degree September start only 	<ul style="list-style-type: none"> BSc in biochemistry, biology, genetics, chemistry, cell biology, microbiology, physiology or closely related disciplines Minimum 78% GPA in the undergraduate degree 	<ul style="list-style-type: none"> BSc in biochemistry, biology, genetics, chemistry, cell biology, microbiology, physiology or closely related disciplines Minimum 78% average in the undergraduate or master's degree
APPLICATION DEADLINES	February 1 (first-round considerations) and July 15	October 15 (for January start) February 1 (first-round considerations for September and May start) June 1 (for September start)	
FUNDING	Students may be eligible for: <ul style="list-style-type: none"> Teaching Assistantships 	Students may be eligible for: <ul style="list-style-type: none"> Base Stipend (MSc – up to \$22,000; PhD – \$30,000) Internal and External Scholarships Teaching Assistantships 	

Although students are not required to have a supervisor identified to apply to the thesis-based MSc and PhD programs, a supervisor must be identified before final admittance to the program. We strongly encourage students to get in touch with faculty members and potential supervisors directly to learn more about their research and identify a potential fit. A supervisor is not required for admittance to the non-thesis MSc program.

Please visit our website at schulich.uwo.ca/biochem or send us an email at gradstudies@schulich.uwo.ca for more information.