



## CAREER PATHFINDERS

### BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN

# BIOCHEMISTRY

## Overview

Biochemistry is an interdisciplinary major which combines studies in Biochemistry, Microbiology and Genetics. Students who major in Biochemistry examine life at a molecular level; this includes research into diseases, pesticides and forensic investigations. A Bachelor of Science in Biochemistry can lead to work in government and private sector laboratories. This major can also prepare students for entrance into dentistry or medical school.

*“As a University of Winnipeg student, I enjoyed the quality instruction, the opportunities for work and volunteer activities and the one-on-one contact with professors who really care.”*

- Kristin Streuber (B.Sc. Hons. Biochemistry), who is now a physician in Winnipeg.

## Job Titles

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| <ul style="list-style-type: none"><li>• Biochemist (NOC 2112)</li><li>• Crime Lab Analyst (NOC 4311)</li><li>• Physiotherapist (NOC 3142)</li><li>• Pest Control Consultant (NOC 7444)</li><li>• Chemistry Technologist (NOC 2211)</li><li>• Coroner (NOC 4165)</li><li>• Pharmaceutical Sales (NOC 6221)</li><li>• Laboratory Technician (NOC 2211)</li><li>• Research Assistant (NOC 4012)</li></ul> | <ul style="list-style-type: none"><li>• Chemical Oceanographer (NOC 2113)</li><li>• Post-secondary Teacher (NOC 4011)</li><li>• Registered Nurse (NOC 3012)</li><li>• Registered Psychiatric Nurse (NOC 3012)</li><li>• Chemical Technologist and Technician (NOC 2211)</li><li>• Pathologists' Assistant (NOC 3212)</li><li>• Administrative Officer (NOC 1221) <sup>1,2</sup></li></ul> |
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<sup>1</sup> The numbers following each job title refer to [Canada's National Occupational Classification \(NOC\) code](#). Jobs may require additional education or training.

<sup>2</sup> Government of Canada. "Biochemistry (26.0202), Bachelor's degree." Job Bank, 9 March 2020, <https://www.jobbank.gc.ca/studentdashboard/26.0202/LOS05>

## Work Settings

- Chemical Companies
- Educational Institutions
- Government Agencies/Departments
- Health Care Centres
- Manufacturing/Processing Companies
- Natural Resource industry
- Pest Control Companies
- Pharmaceutical Industries
- Research Institutes
- Retail/Wholesale Establishments

## Skills and Characteristics

- Laboratory technology skills
- Analytical skills
- Problem solving
- Research and investigation
- Communication skills

## Professional Associations and Other Links

- Canadian Association of Medical Biochemists <http://www.camb-ambc.ca/>
- Biochemical Society <http://www.biochemistry.org/>
- Association of Biomolecular Resource Facilities <https://abrf.org/>
- Association for Clinical Biochemistry and Laboratory Medicine <http://www.acb.org.uk/default.aspx>
- International Union of Biochemistry and Molecular Biology <http://www.iubmb.org/>
- Chemical Institute of Canada [http://www.cheminst.ca/index.php?ci\\_id=1567&la\\_id=1](http://www.cheminst.ca/index.php?ci_id=1567&la_id=1)

This document is intended to provide a starting point for your career research. For more information about UWinnipeg's Biochemistry program, visit the [Department of Biochemistry](#) website and the [Biochemistry Fact Sheet](#).

Students are encouraged to [schedule an appointment with an Academic and Career Advisor](#) for assistance with career planning.

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