



CAREER PATHFINDERS

BACHELOR OF ARTS OR SCIENCE DEGREE WITH A MAJOR IN

MATHEMATICS

Overview

Mathematics graduates have many skills that are valuable to employers, such as the ability to recognize, analyze and interpret data, and the ability to make sound judgements and solve quantitative problems. A mathematical background will provide a basis for entry into almost any technological field. Graduates can search for employment in areas related to finance, data science, computers and cyber security, information technology, education, insurance, telecommunications, economics, and more.

“The faculty at UWinnipeg is some of the best in the country, and I also had a lot of opportunities to do research starting early in my degree, which is uncommon at larger universities.”

- Adam Borchert, BSc (Math, UWinnipeg), MSc (Math, Cambridge), studying at Berlin Mathematical School

Job Titles

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| <ul style="list-style-type: none"> • Accountant (NOC 11110) • Actuary (NOC 21210) • Air Traffic Controller (NOC 72601) • Applications Programmer (NOC 21232) • Astronomer (NOC 21100) • Banking/Credit/Investment Manager (NOC 10021) • Biostatistician (NOC 21210) • Contract Administrator (NOC 12102) • Cryptographer (NOC 21210) • Data Control Administrator (NOC 12010) • Data Scientist (NOC 21211) • Demographer (NOC 21210) • Econometrician (NOC 41401) • Inventory Control Specialist (NOC 13201) | <ul style="list-style-type: none"> • Meteorologist (NOC 21103) • Public Health Statistician (NOC 21210) • Quality Assurance Analyst (NOC 21222) • Technical Writer (NOC 51112) • Underwriter (NOC 12202) • Mathematician, Statistician (NOC 21210) • Teacher (NOC 41220) • Computer Programmers and Interactive Media Developer (NOC 21232) • Financial and Investment Analyst (NOC 11101) • Financial Auditor (NOC 11110) • Information Systems Analyst/Consultant (NOC 21222) ^{1,2} |
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¹ The numbers following each job title refer to [Canada's National Occupational Classification \(NOC\) code](#). Jobs may require additional education or training.

² Government of Canada. "Mathematics, General (27.0101), Bachelor's degree." Job Bank, 26 March 2020, <https://www.jobbank.gc.ca/studentdashboard/27.0101/LOS05>

Work Settings

- Auditing/Accounting Firms
- Aerospace Industry
- Consulting Firms
- Educational Institutions
- Financial Industry
- Government Agencies/Departments
- Insurance Industry
- International Organizations
- Investment Industry
- Marketing/Public Relations Firms
- Media/Publishing/Telecommunications Industries
- Military
- Private Practice
- Research Institutes
- Software/Hardware Developers
- Trade/Professional Associations

Skills and Characteristics

- Analytical skills
- Clear, logical thinking
- Critical thinking
- Problem solving
- Time management
- Organizational skills
- Teamwork skills and the ability to work independently

Professional Associations and Other Links

- Association for Women in Mathematics <https://awm-math.org>
- Canadian Mathematical Society <http://cms.math.ca/>
- CMS Employment <http://cms.math.ca/Employment/>
- Math Jobs.org <http://www.mathjobs.org/jobs>
- Statistical Society of Canada <http://www.ssc.ca/en/jobs>
- Canadian Applied and Industrial Mathematics Society <https://www.caims.ca/>
- National Council of Teachers of Mathematics <http://www.nctm.org/>

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

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