



## CAREER PATHFINDERS

### BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN

# PHYSICS

## Overview

Learn about the beauty of the natural world while preparing for a career – in anything! There are no limits to what you can do with the skills and critical thinking developed through a physics degree. Our graduates find employment in education, engineering, computing, research, finance, business, and the health sciences to name a few. Physics is also an excellent degree for those wishing to enter professional programs such as dentistry, law, pharmacy and medicine.

*“I like everything about the physics department. The professors are incredibly talented, friendly, and helpful with advice for those trying to figure out what to do after graduation. As well, undergraduate students have many opportunities to do research.”*

- Allison Kolly, BSc (Honours), who has completed an MSc in Atmospheric & Oceanic Sciences from McGill University

## Job Titles

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| <ul style="list-style-type: none"> <li>• Aerodynamist (NOC 2111)</li> <li>• Air Traffic Controller (NOC 2272)</li> <li>• Astronomer (NOC 2111)</li> <li>• Automotive Engineer (NOC 2132)</li> <li>• Biophysicist (NOC 2111, 2121)</li> <li>• Engineer (NOC 2131, 2132, 2133, 2141, 2142, 2146)</li> <li>• Environmental Analyst (NOC 4161)</li> <li>• Financial Analyst (NOC 1112)</li> <li>• Forensic Technician Hydrologist (NOC 2113)</li> <li>• Laboratory Technician (NOC 2241)</li> <li>• Lawyer, Technology Specialty (NOC 4112)</li> <li>• Medical Physicist (NOC 2111)</li> <li>• Meteorologist (NOC 2114)</li> </ul> | <ul style="list-style-type: none"> <li>• Occupational Safety Specialist (NOC 2263)</li> <li>• Oceanographer (NOC 2113)</li> <li>• Scientific Consultant (NOC 4161)</li> <li>• Post-secondary teaching and research assistants (NOC 4012)</li> <li>• Secondary school teachers (NOC 4031)</li> <li>• Computer programmers and interactive media developers (NOC 2174)</li> <li>• Commissioned officers of the Canadian Armed Forces (NOC 0433)</li> <li>• Information systems analysts and consultants (NOC 2171)</li> <li>• Business management consulting (NOC 1122)</li> <li>• Corporate sales managers (NOC 0601)</li> <li>• Paramedical occupations (NOC 3234)<sup>1,2</sup></li> </ul> |
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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. "Physics, General (40.0801), Bachelor's degree." Job Bank, 30 March 2020, <https://www.jobbank.gc.ca/studentdashboard/40.0801/LOS05>

## Work Settings

- Aerospace Industry
- Consulting Firms
- Educational Institutions
- Engineering Firms
- Government Agencies/Departments
- Health Care Centres
- Legal Profession
- Manufacturing/Processing Companies
- Media/Publishing/Telecommunications Industries
- Military
- Natural Resources Industry
- Private Practice
- Public Utilities
- Transportation Industry

## Skills and Characteristics

- Problem-solving skills
- Reasoning abilities
- Mathematical reasoning
- Practical skills
- Communication skills
- Computer programming and coding
- Data analysis and visualization

## Professional Associations and Other Links

- Bright Recruits.com <http://brightrecruits.com/>
- Canadian Association of Physicists <http://www.cap.ca/>
- Canadian Organization of Medical Physicists <https://www.comp-ocpm.ca/>
- Ontario Organization of Physics Teachers <http://www.oapt.ca/>
- Canadian Consortium for Research <http://ccr-ccr.ca/>
- Physics Today Jobs <http://jobs.physicstoday.org/jobs/>

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

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

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