

EARTH SCIENCES (BSc)

The [Earth Sciences](#) degree explores the history of the Earth and its life, with a focus on the stories recorded in rocks. Students gain practical and theoretical skills to understand Earth processes and solve environmental and resource-related challenges. Graduates can pursue careers as geologists, environmental technicians, hydrogeologists, or mining and research specialists.

What Can I Do with My Degree?

Sample Job Titles:

- Environmental Geologist
- Mine Site Geologist
- Mineralogist
- Field Geologist
- Environmental Impact Analyst
- Geoscience Consultant
- Geomorphologist
- Surficial Geologist
- Laboratory Technician (Geoscience)
- GIS/Mapping Technician
- Geological/Field Assistant
- Resource or Environmental Technician
- Water Quality Technician
- Natural Resource Technician

Areas of Employment

- Mining/Mineral Resources Companies
- Environmental consulting firms
- Petroleum industry
- Government Geological Survey Units
- Resource Exploration Companies
- Engineering firms
- Educational Institutions
- Science centres and museums
- Professional Geoscience consulting
- Geological software development firms

DEGREE / PROGRAM OFFERED

3-Year General

GRADUATION REQUIREMENTS

3-Year General – 90 credit hours, DGPA 2.0

REQUIRED COURSES		Credits
GEOL 1340	The Dynamic Earth (C+)	3
One of the following:		3
GEOL 1400	Time-Trekker's Travelog: Our Evolving Earth	
GEOL 1410	Natural Disasters and Global Change	
GEOL 1420	Exploring the Planets	
GEOL 2500	Introduction to Mineralogy	3

ELECTIVE COURSES

General

- 6 credit hours Faculty of Arts course
- 18 credit hours of declared Minor
- 21 credit hours Geological Science courses at 2000 / 3000 / 4000 level
- 36 credit hours of elective courses (3 credit hours Math, 3 credit hours Writing)

**Refer to the Academic Calendar for the most up-to-date information. In any case of discrepancy, the [Academic Calendar](#) shall prevail.*

Resources

University of Manitoba Career Services | www.umanitoba.ca/student/careerservices

Click on "Career Connect" and register as a Student to view current job postings

University of Manitoba Exploring Occupations

<https://umanitoba.ca/career-services/career-planning/explore-occupations>

Environmental Careers Organization Canada | www.eco.ca

Earth Science Canada | www.earthsciencecanada.com/careers

Manitoba Environmental Industries Association (MEIA) | www.meia.mb.ca

Environmental Career.com | www.environmentalcareer.com



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