icm | University of Manitoba

UTP STAGE II: ENVIRONMENT, EARTH, AND RESOURCES

Do you want to be part of creating a sustainable world for future generations? What about a geoscience professional in the petroleum or mining industries or an environmental scientist at an engineering firm?

The University of Manitoba's Clayton H. Riddell Faculty of Environment, Earth, and Resources offers seven undergraduate degree programs:

- Environmental Science
- Environmental Studies
- Geography
- Geological Sciences
- Geology
- Geophysics
- Physical Geography

Start your university studies at the International College of Manitoba (ICM), where you'll benefit from an environment designed for international student success. ICM's smaller classes and additional support will set you up for success as you begin your university career. After completing UTP Stage II Environment, Earth, and Resources, you can apply to your second year of studies in the Faculty of Environment, Earth, and Resources where you will complete your undergraduate degree.

WHERE CAN THIS DEGREE TAKE YOU?

The skills developed within the Faculty of Environment, Earth, and Resources will prepare students to work in areas including environmental protection, oil & gas, mining, resource management and environmental sustainability.

Graduates of the geological sciences, geology and geophysics programs can also be eligible for professional registration with the Association of Professional Engineers and Geoscientists (APEGM).

POTENTIAL CAREERS

- **Earthquake seismologist**
- **Electromagnetic geophysicist**
- **Environmental impact analyst**
- **Environmental planner**
- **Exploration geologist**
- **Petroleum geophysicist**
- **Pollution prevention specialist**
- **Sustainability coordinator**
- **Weather forecaster**
- **Wildlife or ecosystem specialist**

WHAT WILL YOU BE STUDYING?

Environmental Science: Environmental scientists study the physical, chemical and biological aspects of our planet's environment, its systems and how they interact. This includes evaluating the effects of industry and climate change in order to shape future practices. This program is also one of only eight Canadian university programs that have attained accreditation by the Canadian Environmental Accreditation Commission.

Environmental Studies: This program studies the scientific as well as social, legal and political aspects of environmental issues. Focus areas include sustainable development, stewardship and policy and law.

Geography: Geographers study the Earth's human and physical characteristics to understand a wide variety of topics ranging from globalization to heath and healthcare to weather and climate.

Geological Sciences: Geological scientists apply principles from a variety of fields to study the solid Earth and the manner in which it interacts with the planet's various spheres and help predict future changes to the Earth. Studies are complimented by fieldwork conducted at the department's Star Lake Field Station outside Winnipeg.

Geology: Geologists study the planet's composition, structure, processes and history including the distribution of mineral and energy resources.

Geophysics: Geophysicists apply the principles of physics and mathematics to examine and understand the Earth, its structure and its dynamic behaviour.

Physical Geography: Physical geographers analyze the Earth's systems as well as how they're connected, how that changes and what these changes imply. This program is home to the only storm and tornado chasing course in Canada.

"I feel like I've gained a lot of knowledge about how the processes of the world work. I can't go to the beach without thinking about what happened there. I can't see limestone on a building without coming up with the processes of how the limestone came to be. It gives you a very fascinating, very different perspective of the world. Like an artistic view."

Hakeem

B.Sc. Geological Sciences ('16)

PROGRAM HIGHLIGHTS

CO-OP PROGRAMS

Enhance your studies with paid, full-time work opportunities to gain invaluable experience and networking opportunities by combining university education and employment training. The faculty offers a co-op program to Environmental Science, Environmental Studies or Physical Geography students, that is designed to provide students with relevant experience in their fields of study while gaining valuable skills. Previous students have done their co-op terms with the following partners:

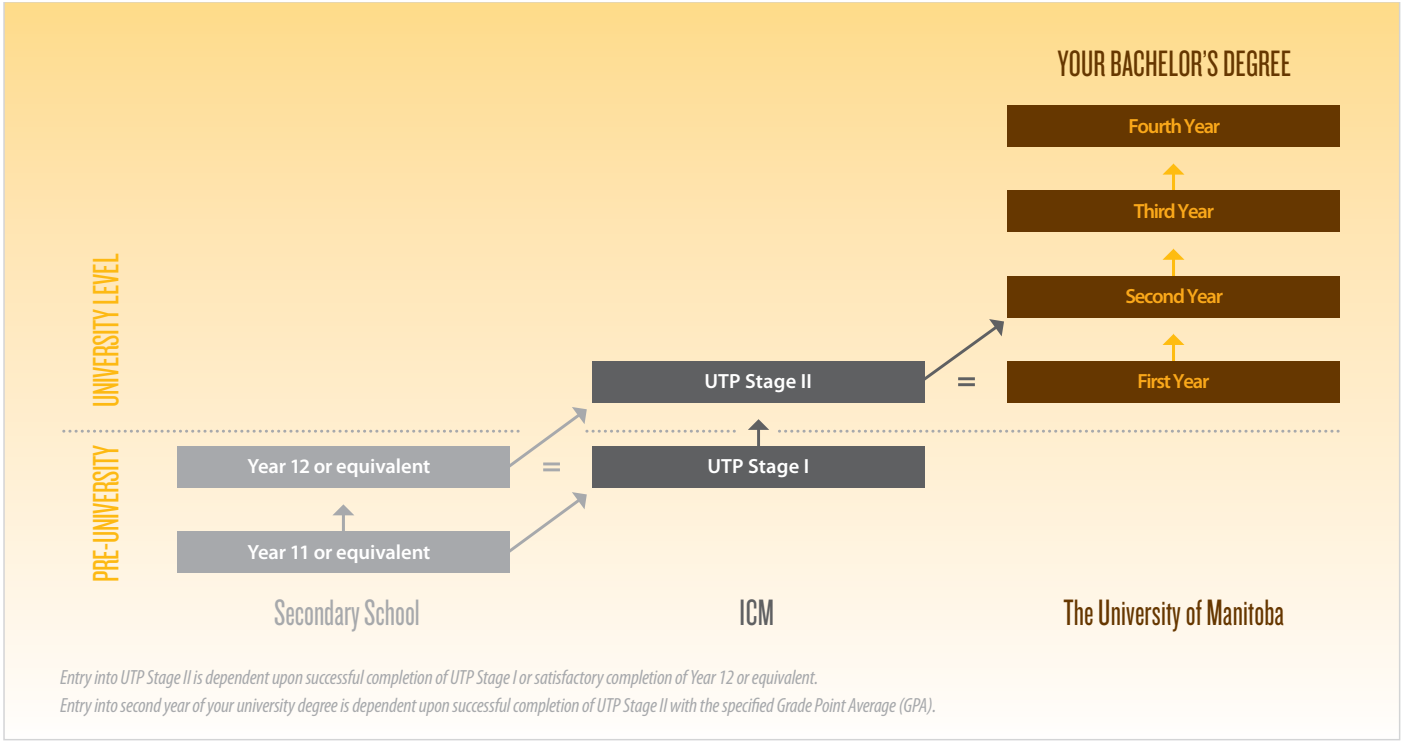
- Department of National Defence
- Environment Canada
- Fisheries and Oceans Canada
- Imperial Oil Ltd.
- Manitoba Conservation
- Manitoba Housing
- Parks Canada
- Manitoba Hydro

UNIQUE COURSES

- **Aquatic Chemistry**
- **Global Tectonics**
- **Introduction to Climate Change and Its Causes**
- **Migration and Mobility in a Globalized World**
- **Mineral Exploration Techniques**
- **Natural Disasters and Global Change**
- **Sea Ice Sampling**
- **Severe Thunderstorms - Storm Chasing & Field Techniques**
- **Wildlife Management**

THE PATHWAY TO YOUR DEGREE

ICM is your pathway to a degree at the University of Manitoba, Western Canada's oldest university, that attracts Canada's best and brightest faculty members, researchers and students.



Entry into UTP Stage II is dependent upon successful completion of UTP Stage I or satisfactory completion of Year 12 or equivalent.
Entry into second year of your university degree is dependent upon successful completion of UTP Stage II with the specified Grade Point Average (GPA).

HOW TO APPLY:

Applying to ICM is fast and easy and there is no charge to apply. You can apply either on-line at icmanitoba.ca/apply-today or through your local ICM approved agent.

Define yourself. Define your future.
ICMANITOBA.CA

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