

master of
**Geomatics for
Environmental
Management**

Program profile

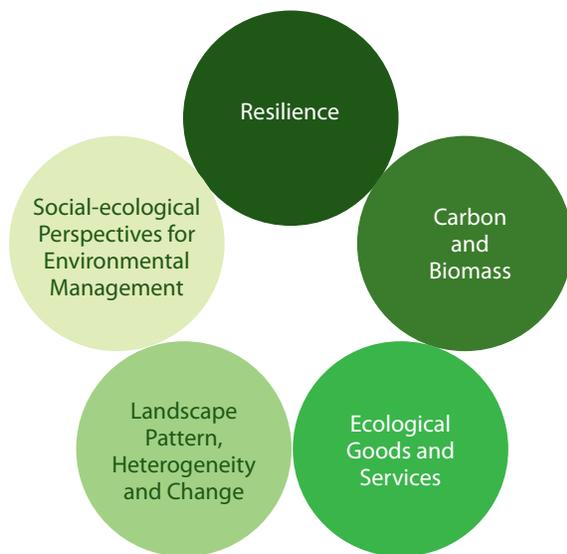
Our course-based Master of Geomatics for Environmental Management (MGEM), is designed for foresters, ecologists, conservation managers and other practitioners worldwide seeking to improve their understanding of geospatial theory, methods, application and tools.

It is a 9-month program at the University of British Columbia, Vancouver campus. It begins in August with a 3-week intensive and concludes the following April.

After completion students will be able to:

- Integrate landscape ecology concepts with geomatics-focused tools for environmental management.
- Collaborate and communicate with scientists and communities wishing to use geospatial data to solve ecological questions.

The program covers 5 key environmental management themes:



Program information

The Master of Geomatics for Environmental Management will begin in UBC's summer term, 2016 (subject to final University and government approval). Applications for our summer start date open in October of the prior year (e.g. apply October 2015 for a summer 2016 start). Admission is competitive and will be completed on a first-come, first-served basis.

Students admitted to the program must meet the Faculty of Graduate and Postdoctoral Studies master's degree admission requirements.

In addition, applicants must have an academic background in a relevant field such as forestry, environmental science, computer science or geography.

Proof of completion of a basic statistics course and a basic knowledge of programming is required.

Visit www.forestry.ubc.ca for more information.

MGEM degree components include

- An intensive landscape ecology course designed to introduce ecological modelling and the core themes.
- Courses covering quantitative skills in statistics, programming, GIS and remote sensing/image processing in an environmental context.
- A mix of theory and hands-on practice to provide students with a well-rounded mix of working knowledge and skills.
- Development of a proof of concept/project proposal to answer ecological questions using quantitative analysis.
- Workshops on project management principles providing professional skills to work with researchers, educators and industry professionals in the geospatial data industry.

Why UBC? Why Vancouver?

- UBC is a global leader in sustainability education.
- Obtain a world recognized post-graduate degree from UBC.
- Vancouver is a technology hot spot with a large number of both internationally renowned technology companies as well as many new small startups focused on meeting needs of the geomatics industry.
- UBC's Faculty of Forestry is interdisciplinary and international in outlook with graduate students from over 30 countries.

Aerial view of UBC Vancouver campus



The value of geospatial information services is estimated at \$150 – \$270 billion in annual global revenue and the job market for spatial scientists is expected to increase by 35% over the next decade"

Science Careers

The program is designed to prepare graduating students for a range of careers in geomatics services, including consulting, engineering, and planning and development, in both private and public sectors, nationally and internationally.



For further information about the program visit the Faculty of Forestry's website at:

www.forestry.ubc.ca

or contact Dr Nicholas Coops
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...it's more than you think

