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See the world from a new perspective...

Mapping with Drones

MICRO-CERTIFICATE



University
of Victoria

Register today!

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250-721-8481

bstassist@uvic.ca

The Micro-certificate in Mapping with Drones equips you with essential skills for a variety of industries or for your own projects.

It covers foundational methods and best practices for using drones and GIS technology in low-level aerial surveys, data collection, and digital mapping.

Drone technology is valuable in fields like planning, forestry, conservation, real estate, construction, mining, emergency management, energy, agriculture and transportation as it can map landscapes quickly, accurately, and affordably.

Whether you're advancing your career or exploring a new field, our flexible online program will prepare you to process drone-based data using WebODM, an open-source photogrammetry tool, to create orthomosaics, elevation models, and 3D visualizations.

Topics covered include:

- Flight and mission planning, including regulations and controls
- Photogrammetry and structure-from-motion data processing
- GNSS data acquisition for precision mapping
- Cartographic design and visualization techniques
- Ground control surveying, accuracy assessment, and spatial analysis

The two core courses are available twice per year:

- [Mapping with Drones 1](#)
- [Mapping with Drones 2](#)

Check out our related micro-certificate in:

- [GIS Skills and Mapping](#)