

# Bachelor of Science in Geomatics

---

---

## Program Student Learning Outcomes

Students graduating with a Bachelor of Science in Geomatics will be able to:

- Identify, formulate, and solve broadly-defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline.
- Formulate or design a system, process, procedure or program to meet desired needs.
- Develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions
- Communicate effectively with a range of audiences
- Understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts
- Function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.
- Apply knowledge in all six areas of surveying and mapping:
  - Field surveying and methods;
  - Photogrammetric mapping, image interpretation and remote sensing;
  - Surveying calculation and data adjustment;
  - Geodetic coordinates and astronomy;
  - Cartographic representation, projections, and map production;
  - Computer-based multipurpose cadastre, geographic information systems.