

## **GRADUATE PROGRAM SPECIALIZATION COURSES**

Specialization	Course Numbers
Geodesy, Remote Sensing and Earth Observation	612, 615, 629, 637, 667, 681, 691
Positioning, Navigation and Wireless Location	620, 623, 625, 629, 633, 638, 663
Digital Imaging Systems	610, 623, 629, 639, 642, 667
GIScience and Land Studies	617, 645, 658, 661, 667, 675, 693, 694

## **Course Titles**

ENGO 610: Geospatial Vision

ENGO 612: Wellbore Positioning by MWD Sensors in the Directional Drilling Engineering

ENGO 615: Advanced Physical Geodesy

ENGO 617: Participatory Geographic Information Systems (PGIS)

ENGO 620: Estimation for Navigation

ENGO 623: Inertial Surveying and INS/GPS Integration ENGO 625: Advanced GNSS Theory and Applications

ENGO 629: Advanced GN33 Theory and Applications
ENGO 629: Advanced Estimation Method and Analysis

ENGO 633 Atmospheric Effects on Satellite Navigation Systems

ENGO 637: Earth Observation for the Environment

ENGO 638: GNSS Receiver Design

ENGO 639: Advanced Topics in Digital Image Processing

ENGO 642: Optical Imaging Metrology

ENGO 645: Spatial Databases and Data Mining

ENGO 658: Geocomputation

ENGO 667: Advanced Topics in Photogrammetry

**ENGO 675: Spatial Statistics** 

ENGO 681: Advanced Global Geophysics and Geodynamics

ENGO 691: Polarimetric Synthetic Aperture Radar

ENGO 693: Cadastral Information Systems

ENGO 694: Advanced Topics in Sensor Web and Internet of Things

Graduate course descriptions can be found in the University of Calgary Graduate Calendar.

Students are also encouraged to take relevant courses from other departments to widen the scope of their studies and strengthen their thesis research. Such courses should be approved by the student's supervisor.