GRADUATE PROGRAM SPECIALIZATION COURSES

<table>
<thead>
<tr>
<th>Specialization</th>
<th>Course Numbers</th>
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<tbody>
<tr>
<td>Geodesy, Remote Sensing and Earth Observation</td>
<td>612, 615, 629, 637, 667, 681, 691</td>
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<tr>
<td>Positioning, Navigation and Wireless Location</td>
<td>620, 623, 625, 629, 633, 638, 663</td>
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<tr>
<td>Digital Imaging Systems</td>
<td>610, 623, 629, 639, 642, 667</td>
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<tr>
<td>GIScience and Land Studies</td>
<td>617, 645, 658, 661, 667, 675, 693, 694</td>
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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 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: Polarmetric 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.