Annual Report on Program Learning Outcomes Assessment

Program: MA in Remote Sensing & GIS
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The Department of Earth & Environment has recently submitted (October 2015) a proposal to substantially revise the MA in Remote Sensing & GIS; its new name will be MA in Remote Sensing & Geospatial Science and the total course requirements will be reduced from 10 to 8.

1. **List the learning outcomes for the program**:
   - Demonstrate advanced knowledge of theory of remote sensing and GIS including sensor systems, basic radiative transfer, cartographic projections and display, and spatial databases, and of fundamental concepts in geospatial analysis and modeling techniques.
   - Quantitatively analyze data to evaluate scientific hypotheses and arguments in remote sensing and geographic information science.
   - Communicate effectively, both verbally and in writing, advanced concepts in remote sensing and geographic information systems.
   - Demonstrate understanding of the broader impacts and applications of remote sensing and GIS for natural sciences, social sciences, and for society at large.
   - Apply a range of geospatial analysis techniques using remote sensing and GIS tools toward solving quantitative problems in one or more core disciplinary areas such as geography, ecology, environmental sciences, biogeosciences, urban planning or natural resources management.