GIS TRACK: PROFESSIONAL MASTERS PROGRAM.

Required Fundamental Course in Geographic Information System

- GEOG 5550 Advanced GIS* (3)

*The department assumes GIS track students have already taken an introduction to GIS course that includes exposure to ARCGIS. If not, then GEOG 5510 must be taken first.

Required Methods Course

- GEOG 5560 Application Development with Python Programming (3)

Topics / Cognate Courses

(choose six courses from two of three distribution requirement groups, 3 hours each)

Topical GIS

- GEOG 5060 Applied GIS: MapInfo Professional (3)
- GEOG 5430 Remote Sensing (3)
- GEOG 5410 Location-Allocation Modeling (3)
- GEOG 5570 Special Topics in GIS (Digital Image Analysis) (3)
- GEOG 5570 Special Topics in GIS (Enterprise GIS) (3)
- GEOG 5570 Special Topics in GIS (Geospatial & Environmental Analysis) (3)
- GEOG 5570 Special Topics in GIS (LiDAR Applications) (3)
- GEOG 5590 Advanced GIS Programming (3)
- GEOG 5960 Health GIS (3)

Human Geography

- GEOG 5130 Research in Human Geography (3)
• GEOG 5140 Medical Geography (3)
• GEOG 5210 Seminar in Urban Geography (3)
• GEOG 5220 Applied Retail Geography (3)

Physical Geography

• GEOG 5150 Water Resources Seminar (3)
• GEOG 5350 Geomorphology (3)
• GEOG 5400 Environmental Modeling (3)
• GEOG 5850 Introduction to Groundwater Hydrology (3)

Non-Thesis Option*

• GEOG 5920 Research Problems in Lieu of Thesis (3)

* Students will conduct two major projects in these last two courses. Each project should be formalized with a proposal and a final report.