GRADUATE CERTIFICATE
PROGRAM IN GEOSPATIAL TECHNOLOGY

COLLEGE of ARTS & SCIENCES

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Douglas O. Fuller, Ph.D., University of Maryland, Professor—remote sensing, biological conservation, GIS and land cover change • Southeast Asia, Africa, USA

Han Li, Ph.D., University of Utah, Assistant Professor—urban economics, social and cultural environments • China, USA

Imelda K. Moise, Ph.D., M.P.H., University of Illinois at Urbana-Champaign, Assistant Professor—health care utilization, food environments, maternal and child health • Africa

Shivangi Prasad, Ph.D., Florida Atlantic University, Senior Lecturer—environmental & social vulnerability modeling, climate change, natural hazards, risks & impacts, and GIS/spatial analysis • USA

Shouraseni Sen Roy, Ph.D., Arizona State University, Professor—climatology, rainfall patterns, crime, GIS, spatial analysis • South Asia

Ira M. Sheskin, Ph.D., Ohio State University, Professor—ethnic geography, quantitative methods, survey research, American Jewish community • Middle East

Justin Stoler, Ph.D., M.P.H., San Diego State University / UC Santa Barbara, Associate Professor—medical geography, population and environment, GIS, spatial analysis • West Africa

Diana Ter-Ghazaryan, Ph.D., Florida International University, Lecturer—cultural & urban geography, critical GIS • Former Soviet Union
The Certificate Program in Geospatial Technology (GT) is designed to benefit students who seek to enhance their skills in geospatial technology, especially Geographic Information Systems (GIS) and satellite remote sensing. The Certificate requires 15 credits, including three core courses and two or more electives. Students may receive credit toward the Certificate for past coursework completed at UM or other accredited schools.

**Core Courses**
- GEG 691 Geographic Information Systems I
- GEG 692 Environmental Remote Sensing
- GEG 693 Geographic Information Systems II

**Electives**
- GEG 625 Independent Study
- GEG 635 Internship
- GEG 680 Spatial Data Analysis I
- GEG 694 GIS and Environmental Modeling
- GEG 685 Digital Cartography
- GEG 695 WebGIS
- GEG 681 Spatial Data Analysis II

Students will be exposed to standard software tools used in the industry including ArcGIS, ERDAS IMAGINE, and Idrisi, as well as image data from a range of optical and microwave orbiting satellites. A full suite of geospatial software is available in the GIS lab.

**Future Electives**
- GIS for Water Resources Research
- GIS in Public Health
- GIS and Crime, Geospatial Data Visualization
- Infographics and Data Visualization