GEOSPATIAL TECHNOLOGY FACULTY

Douglas O. Fuller, Ph.D., 1994, University of Maryland, Professor—remote sensing, biological conservation, GIS and land cover change • Southeast Asia, Africa, USA

Imelda 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, Lecturer—environmental & social vulnerability modeling, climate change, natural hazards, risks & impacts, and GIS/spatial analysis • USA

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

Ira M. Sheskin, Ph.D., Ohio State University, Professor and Chair—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, Assistant 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

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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** GIS I
- **GEG 693** GIS II
- **GEG 692** Remote Sensing of the Environment

**Electives**

- **GEG 680** Spatial Data Analysis I
- **GEG 681** Spatial Data Analysis II
- **GEG 685** Digital Cartography
- **GEG 694** GIS and Environmental Modeling
- **GEG 695** Web GIS
- **GEG 635** Internship in Geography/GIS
- **GEG 645** Advanced Independent Study
- **GEG 625** Sections: GIS for Health and Environment, Crime Mapping and Analysis

Non-GEG electives:
- Infographics and Data Visualization
- Introduction to Computer Programming
- Other electives as approved

Students will be exposed to standard software tools used in the industry including ArcGIS, ERDAS IMAGINE, and Idrisi TerrSet, 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.

Undergraduate students may pursue a similar program by declaring the Minor in Geospatial Technology. For details on the Undergraduate program please visit http://miami.edu/geography.