

Geographic Information Science and Technology

Fall Semester 2013

Course# ISTE (740) – (Online version also offered)

Time/Location: MW 6:30-7:45pm, Location 70-2620

Credits: 3 No prerequisites

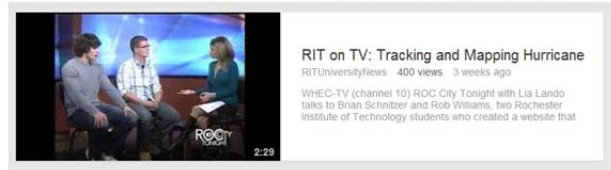
Description

This course provides a survey of theory, concepts and technologies used to represent the earth, collectively referred to as Geospatial Technologies (GTs). Students will gain hands-on experience with GTs, including **Global Positioning Systems (GPS), Geographic Information Systems (GIS), Virtual Globes (Google Earth), and web 2.0 “mapping mashups.”** Students should be comfortable working in PC-based computing environments. **No prerequisites.**

Broader developments with information technology have increased the use and application of Geospatial Technologies (GTs). **GTs are a critical methodological, analytical and information interaction device for human-computer interaction (HCI) research.**



Figure 2. Prototype in action with Tweets & Crisis Mapper KML



Interactive Twitter Disaster Mapping Application built by RIT Students – Fall 2012

Goals

The goal of this course is to expose students to foundational concepts and technologies of GTs. Students taking the course will be able to continue with additional GT courses on remote sensing, Geographic Information Systems (GIS), spatial databases, mobile GIS, spatial analysis, geographic visualization and applications of GTs to environmental, societal, sustainability, and other problem domains. GTs have been identified by the US Federal Government as a key emerging field in terms of job opportunities.

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Interactive Neighborhood Crime App