CEE 498 GLP: Global Leaders Program on Risk, Resilience, and Sustainability of Rapidly Growing Cities in the Developing World

Interested in gaining international experience on some of the world’s most pressing urban challenges? Travel to India to work on joint independent study projects with faculty and students from the Indian Institute of Technology Madras (IITM), while learning about Indian culture and leadership skills such as communication, project management, and stress management.

This course fulfills 4 of the 7 hours of coursework required for the Global Leaders Program in Sustainable and Resilient Infrastructure Systems (SRIS) and Energy-Water-Environment Sustainability (EWES), described at [http://cee.illinois.edu/SRIS/globalleaders](http://cee.illinois.edu/SRIS/globalleaders). The remaining 3 hours should be fulfilled via a CEE 497 or CEE 597 independent study supervised or approved by an SRIS or EWES faculty member, which can be completed in Spring, Summer, or Fall 2014.

The following project topics have been identified as holding mutual interest to Illinois and IITM faculty, but other topics may be possible:

- Construction and demolition debris recycling
- Energy-efficient infrastructure/buildings
- Chennai Metro tunneling for earthquake resilience
- Radiative forcing due to black carbon in India
- Transportation emissions sensing and modeling
- Sensor & remote sensing fusion for transportation modeling
- Transportation safety modeling and management
- Durability, risk, and resilience of concrete structures
- Wastewater to energy treatment plant design
- Decentralized wastewater treatment and reuse for Chennai
- Green stormwater infrastructure impacts on Pallikaranai Marshlands
- Nutrient/bacteria fate & transport in vadose zone

The course is open to graduate students enrolled in SRIS, EWES, or Societal Risk Management (SRM) interdisciplinary programs, as well as senior undergraduates interested in graduate work in these programs. Up to 15 students will receive $1,000 travel stipends to defray costs, and additional financial aid is available to qualified students through normal university channels.

An information session for interested students will be held on Friday, November 14, 2014, in 1225 Newmark Lab at 4 PM. Initial deadline for sign-ups to ensure best airfares will be November 30, 2014. Please contact Professor Barbara Minsker, [Minsker@illinois.edu](mailto:Minsker@illinois.edu), for more information.