

## HEAT EXPOSURE AND TRANSIT USE: TRAVEL BEHAVIOR AND INFRASTRUCTURE

Tuesday, April 25, 2017 – Wrigley 481 – 12pm to 1pm 

OPEN TO THE PUBLIC

A PRESENTATION BY ARIZONA STATE UNIVERSITY'S SPRING 2017 COURSE

### URBAN INFRASTRUCTURE ANATOMY

Civil, Environmental, and Sustainable Engineering  
School of Sustainability  
School of Geographical Sciences and Urban Planning

Public transit necessitates environmental exposure and there is increasing recognition that in a future with hotter temperatures new strategies are needed to protect passengers. Arizona State University's Spring 2017 Urban Infrastructure Anatomy course assessed travel behavior, public transit stop design, and heat exposure to develop recommendations for mitigating heat exposure. Travel surveys, analysis of infrastructure characteristics, and thermal imaging were used to assess exposure. A suite of mitigation strategies was developed from a literature review, conversations with experts, and review of other transit systems. Focusing on neighborhoods in Tempe, Arizona, strategies are developed for protecting future riders from negative health outcomes.

