

**Geography 8120: Seminar in Climatology**  
**Climate and Health**  
**Spring 2010, Mondays 3:35-5:30 pm**  
**Call # 50-548**

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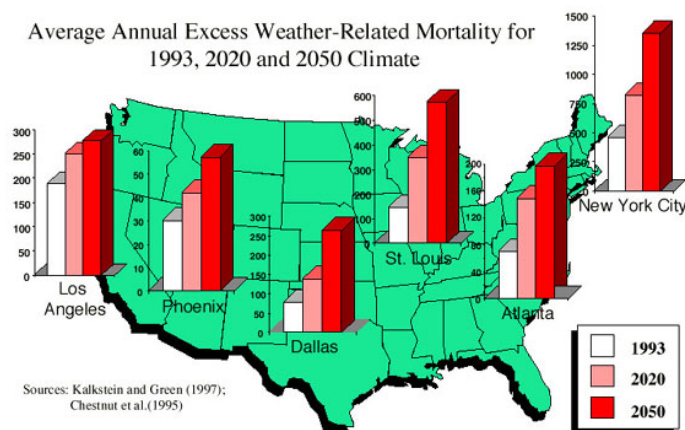
**Possible Topics:**

1. Health impacts of weather and climate, including heat-related illnesses
2. Physiology and climate, including the roles of temperature and humidity
3. Role of climate change in health
4. Intervention, adaptation and mitigation strategies

**Seminar activities will include but not be limited to:**

1. Reviewing current and historical literature on each topic
2. Team research/analysis projects
3. Project dissemination (e.g. poster session, publications)

Weather and climate interact in human health in a variety of ways both directly and indirectly. Direct effects may be heat- or cold-related illnesses while indirect effects may be increased asthma in response to more pollen production or the spread of vector-borne diseases. Humans have altered climate through land-use change/urbanization as well as through anthropogenic greenhouse warming. Global warming is expected to have overall negative impacts on human health. The purpose of this seminar will be to examine how weather and climate interact with human health, the impacts of changing climate, and possible intervention and mitigation strategies. We anticipate that students will be exposed to concepts of climatology, meteorology, human physiology, public health, ecology, water resources, and biophysical modeling. We encourage enrollment by graduate students in departments that relate to these concepts. It is expected that one or more peer-reviewed journal articles will be generated from this seminar.



Sources: Kalkstein and Green (1997);  
Chestnut et al.(1995)

Note: Includes both summer and winter mortality.  
Assumes full acclimation to changed climate.  
Includes population growth.

GFDL Climate Change Scenario



United States Environmental Protection Agency