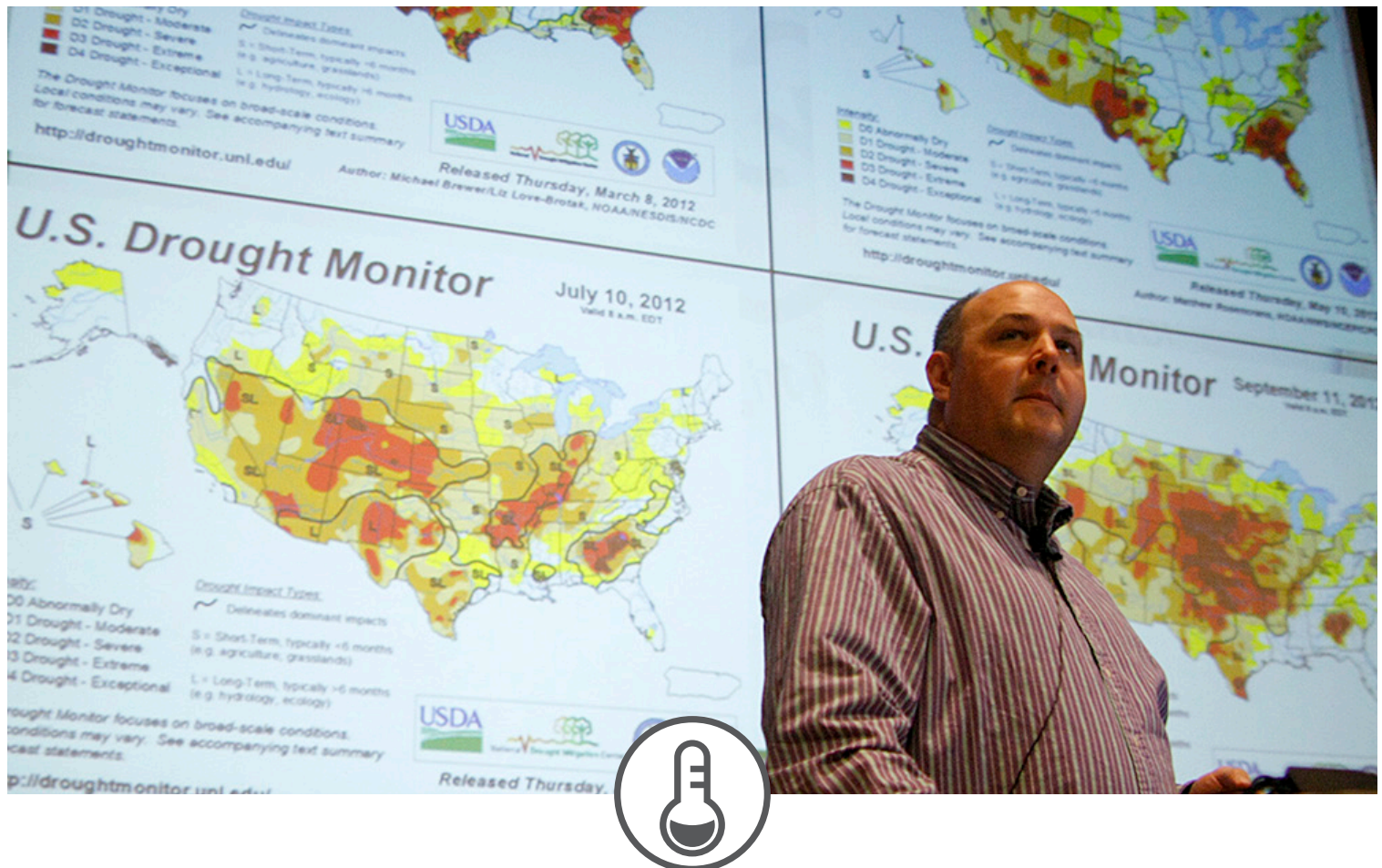


# CLIMATE ASSESSMENT AND IMPACTS

Available to both MS and PhD candidates.



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The Climate Assessment and Impacts specialization provides students with unique opportunities to emphasize:

1. Learning methodologies to assess climate variability and change and their impacts on society and natural resource systems
2. Synthesize and evaluate complex climate-based issues and their interrelationships with natural resources, management, and society. These issues include food and water security, natural hazard management, changing frequency and severity of extreme climate events, environmental degradation, climate-crop interactions, carbon and water gas exchanges, and deforestation.

Students selecting this specialization will be able to capitalize on the expertise of scientists and other students working on climate assessment, climate impacts, and problem-oriented policy research. Students also have the opportunity to work with research centers relating to climate, drought, and remote sensing including: CALMIT, the High Plains Regional Climate Center, the National Drought Mitigation Center and the Nebraska State Climate Office.

# CLIMATE ASSESSMENT AND IMPACTS

## Faculty Advisors

**Dr. Mike Hayes | [mhayes2@unl.edu](mailto:mhayes2@unl.edu)**

Drought risk management, natural hazards and disaster management, planning, impacts and vulnerability assessments, climate variability and change, extreme events, adaptation strategies, food and water security

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Regional and global climate variations, convection in the atmosphere, atmospheric circulation and modeling, human dimensions in global change, regional and global water cycle

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Climate variability and change, climate impacts, climate monitoring and assessment, high latitude climatology

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Drought monitoring, natural resource management, team leadership & development, seasonal weather prediction, climate change & variability, human impacts on the environment, remote sensing/GIS, data mining & risk management.

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Field-based remote sensing, agricultural meteorology, environmental biophysics, bio-atmospheric interactions

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Remote sensing, geographic information systems (GIS), vegetation-climate interactions, drought monitoring, biogeography, landscape ecology, remote sensing/GIS applications for agricultural and natural resource management/ monitoring, land use/land cover characterization

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