DESCRIPTION:
The Geography Department offers a Bachelor of Science with a specialization in Climate, Water, and Ecosystems. The Climate, Water and Ecosystems specialization provides students with an understanding of the climate and climate change, ecological processes, water management, the interactions between water, climate and life, human impacts on these systems, and their influence on society. Additional skills developed include: critical thinking and reasoning, research techniques, oral and written communications, and mathematics and statistics. Students obtaining the Climate, Water, and Ecosystems emphasis will understand the climate system, the environment and human activities. This emphasis is recommended for students interested in employment in environmental consulting firms, planning agencies, numerous government agencies (e.g. EPA, USGS, NRCS) and non-governmental organizations. All students are required to have a minor. Students are encouraged to meet with their assigned departmental advisor every semester to ensure adequate progress towards graduation.

Major Requirements (48 units)
A. Geography Core (21 units)
   See Geography B.S. Core

B. Climate, Water, and Ecosystems Specialization (18 - 19 units)
   Specialization Core (9 units)
   GEOG 321 – Understanding Climate (3 units) OR
   GEOG 421 – Climatology (3 units)
   GEOG/NRES 400 – International Issues for Water Development (3 units) OR
   GEOG 438 – Western Water Resources and Management (3 units)
   GEOG 434 – Biogeography (3 units) OR
   GEOG 435 – Conservation of Natural Resources (3 units)

   Specialization Electives (9 -10 additional units*)
   GEOG 321 – Understanding Climate (3 units)
   GEOG 322 – Into the Storm: Severe Weather and Society (3 units)
   GEOG 421 – Climatology
   GEOG 422 – Climate Solutions: Local to Global Perspectives (3 units)
   GEOG 437 – Geography of Past Environments (3 units)
   GEOG 440 – Mountain Geography (3 units)
   GEOG 472 – Geography of Arid Lands (3 units)
   NRES 482 – Small Watershed Hydrology (4 units)
   BIOL 472 – Limnology (3 units)
   *No more than one class can be taken outside of Geography, except for those cross-listed with Geography.

Geography Electives (8 - 9 units)