

# Walter E. Dean Environmental Information Management Institute

May 23 through June 10, 2011

## Environmental Information Management Institute Earn six credits in three weeks

When: Monday, May 23 -- Friday, June 10, 2011

Where: University of New Mexico, Informatics Training Laboratory

Who: This course is for MS students and professionals with a BS in biology, geology, ecology, or other environmental sciences, environmental engineering, geography or science librarianship

Scientists, engineers, and data librarians are working in an increasingly data-intensive research environment. The Environmental Information Management (EIM) Institute provides MS and PhD students and professionals with the conceptual and practical hands-on training that allows them to effectively design, manage, analyze, visualize, and preserve data and information. Participants completing the three-week Institute will be at a significant competitive advantage as they pursue further academic and professional efforts. They will gain invaluable experience with all aspects of the data life cycle: from managing data files and creating databases and web portals, through state-of-the-art analysis and visualization techniques, as well as managing, analyzing, and visualizing geospatial data.

### REGISTRATION INFORMATION:

Space is limited. The Institute is comprised of three one-week courses for two credits each. Students must register for and attend all three courses. Open to non-UNM students.\* For more information visit [elibrary.unm.edu/courses](http://elibrary.unm.edu/courses) or email Kathleen Keating ([kkeating@unm.edu](mailto:kkeating@unm.edu)). Resident graduate tuition rates apply to this course.

\* Non UNM students must apply for non-degree status through UNM Admissions (\$10 fee) prior to registering for the Institute. Apply on-line at <http://www.unm.edu/admissions/guidelines/nondegree.html>.

### Week 1 Environmental Information Management INFO 530

A practical course on environmental information management and the data life cycle for the environmental sciences. Lectures and exercises focus on data and metadata acquisition and management, quality assurance/quality control, data preservation, database creation and management, and web portal development.

### Week 2 Environmental Data Analysis and Visualization INFO 532

Lectures and exercises cover techniques for data exploration, data analysis and scientific workflows, and creation of effective visual representations of analytical results.

### Week 3 Spatial Data Management in Environmental Science INFO 533

This hands-on course focuses on how geospatial data are effectively managed, analyzed, visualized and preserved in Geographic Information Systems.