NTRES 6600 Special Topics Course:
Managing data to facilitate your research

Spring. 1 credit. S/U only.

In an era that confronts us with an overwhelming capacity to collect data, knowing how to manage data is essential. Not only does the National Science Foundation (NSF) require a data management plan with all grant applications, a growing number of funders and publishers have data sharing requirements. Data management is equally important for the individual researcher trying to document, organize and evaluate empirical information. In this course, students will learn how to organize data for efficient statistical and graphical analysis, develop metadata describing data content, and explore best practices for sharing and archiving research data.

Topics covered:
- general introduction to data management
- relational databases and best practices in data structuring, data analysis and visualization
- strategies for data sharing and suggested practices for data deposit, including an overview of disciplinary data repositories and criteria for judging them
- data quality and documentation issues & best practices

First meeting: January 30, 2017 from 4:40 - 6:00 p.m. in Fernow G01, followed by five additional weekly sessions (last session March 13th). Contact Cliff Kraft (cek7) for further information.

Instructors: C. Kraft (NTRES), E. Johns (Mann Library)