

# Spatial Data Analysis (01:450:320:01)

Spring 2011

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- Instructor:** Prof. Åsa K. Rennermalm, email: arennerm@rci.rutgers.edu
- Office hours:** Thursday 2:30-3:30pm in B214, and per appointment
- Class Time:** Mondays and Thursdays 10:20-11:40AM in Lucy Stone Hall B266 (Livingston Campus)
- Class Format:** The class time will be split between lecture and a lab component. The lab component will include interactive exercises, and project work.
- Textbooks:** "An Introduction to Statistical Problem Solving in Geography", 2nd edition, by McGrew and Monroe, and "Statistical Analysis for Dummies", 2nd edition, by Schmuller
- Exams:** Midterm and final exam TBA
- Extra credit:** Not available under any circumstances.
- Important info:** The course sakai site will be actively used, check it regularly for information, syllabus updates and exam scores. Login at <https://sakai.rutgers.edu/portal>.

**Course Overview:** This course is an introduction to data analysis for geographers. Students will learn how to visualize, analyze, interpret data, and how to find data in online data repositories. The course will cover basic two dimensional visualization techniques, basic descriptive statistical methods, and a range of techniques for problem solving in geography including hypothesis testing, correlation and regression analysis. The techniques will be used to explore various problems in geography during lab component and through project work.

Familiarity with Microsoft Excel is not a requirement, but very helpful. Students should be comfortable with using and learning software packages and interactive websites.

**Grading:**

The final grade will be weighted as follows:

- Project work: 20%
- Assignments: 30%
- In-class mid-term: 25%
- Final exam: 25%

**Accommodations for students with special needs:** Students who, because of disability, need accommodation for special needs should provide the instructor with a Letter of Accommodation (LOA) obtained from the Office of Disability Services for Students as soon as possible.