

## Stat 445: Introduction to Exploratory Data Analysis Course Overview and Policies

LECTURE:	13:00–14:00 MWF in Geography (GEOG) 147
INSTRUCTOR:	Kevin Buhr <buhr@stat.ubc.ca>
Math Office:	Math Annex (MATX) 1215, (604) 822–3783
Stats Office:	Leonard S. Klinck (LSK) 362, (604) 822–1623
LAB:	One hour per week in Math/Stats Resource Centre (MSRC) at time to be determined.
TEACHING ASSISTANT:	Jafar Khan <jafar@stat.ubc.ca>
COURSE WEBPAGE:	<a href="http://unixlab.stat.ubc.ca/~stat445/">http://unixlab.stat.ubc.ca/~stat445/</a>
TEXTBOOK:	W. N. Venables and B. D. Ripley, <i>Modern Applied Statistics with S</i> , Fourth Edition, Springer-Verlag, 2002. (ISBN: 0–387–95457–0)
PREREQUISITE:	Stat 306 Applied Regression Analysis

**Description:** In the UBC Calendar, the course is described as follows:

Methods for exploring and presenting the structure of data: one group of numbers, several groups, bivariate data, time series data and two-way tables. Data displays, outlier identification, transformations, resistant regression, several types of data smoothing, comparisons with standard statistical methods. [3-0-1]

More exactly, this course will focus on the use of R in the analysis of a variety of data sets. The emphasis will be on exploratory techniques, including graphical and robust statistical methods. In addition to regular lab assignments, there will be several larger and more open-ended projects. For these projects, you will need to engage in realistic statistical problem solving and to summarize your findings by writing concise, complete, and clear reports.

**Grade and Requirements:** Your final grade will be based on regular lab assignments, two (or possibly more) midterm projects, and a larger final project. A component of your grade may also depend on class participation or some other form of individual work to be determined.

Be mindful of due dates and times. **Late assignments or projects will receive a grade of zero.** An exception can be made in case of illness or other medical emergency, but this will require documentation.

**Academic Misconduct:** Please acquaint yourself with the university policies concerning academic misconduct, including plagiarism and cheating. See Chapter V “Academic Regulations” of the *UBC 2004/2005 Calendar*, the section titled “Student Discipline.”

The university takes academic misconduct seriously. If you are caught cheating on or plagiarizing part of an assignment or project, it will be referred to the university authorities. The usual punishment handed down is a grade of zero on the entire course and a suspension from the university for 6 months or more.