Complete the required SSI course information below and Submit to Sasha Schellenberg no later than October 14, 2013.

**Course Information:**

1. (Instructor Name) James Scott
2. I am a statistician with a joint appointment in the Division of Statistics and Scientific Computing and the McCombs School of Business. My research is in computational statistics, and my recent collaborative projects have involved linguistics, political science, corporate strategy, finance, neuroscience, infectious disease, astronomy, and molecular biology.
3. Teaching Preference. (Please note that we cannot guarantee that you will be assigned to your preferred time) Please mark or highlight your preference in the space below.
   1. X Morning (09:00 to 12:00 noon)

(I cannot do the afternoon.)

1. Multivariate Data Analysis with R
2. Intended Audience: Graduate students, faculty, or advanced undergraduates in science or social science who would like to learn a handful of widely applicable techniques for analyzing multivariate data.
3. Prerequisites: Students should have a basic familiarity with R or some similar software package, although neither advanced statistical or R programming skills are expected.  The first hour of the class has the dual purpose of teaching simple group-wise statistical models and orienting students to the R environment.
4. Same description as last year…. This is a highly practical, intermediate-level course that emphasizes learning by doing on real data sets.  The course is organized as a series of eight hands-on R vignettes.  Each one will be anchored by a single data set and research question (prototypical of their genre), and a statistical technique for answering the research question.  For each case study, I will describe the intuition behind the method, the assumptions and limitations of the method, the implementation of the method in R, and the interpretation of the output.  (We’ll all do these last two together.)  Because I will focus more on data analysis and less on mathematical niceties, I will also compile a reading list for each topic.  That way you can learn a bit more detail, or remind yourself about a model many months down the road (when it actually comes time to put these ideas into practice).

**Computers and Resources:**

1. Please indicate or highlight computer resources preferred for your course below.
   1. X Personal Laptop
2. Required software: R
3. List specific room or media requirements below: projector and large whiteboard
4. Will students need access to online course materials through a secondary site like Canvas? No

**Attachments:**

1. Outline: Please complete the attached outline for your 2014 SSI course. This will be posted on our website to give students sufficient detail of what to expect for each day of the institute.