

Course Outline: Statistics for Language Science

DEPARTMENT OF LANGUAGES, LITERATURES, AND LINGUISTICS

Course Code

AP/LING 3300 3.0 M

Course Description

This course provides an introduction to concepts and methods of descriptive and inferential statistics needed for the analysis of quantitative data. Students explore key concepts such as probability, distributions, Analysis of Variance and hypothesis testing. Using data sets from language studies, students gain hands-on experience with the statistical analysis software R, focusing on data visualization, regression modeling and significance tests.

Prerequisite: AP/LING 1000 6.00 *Intro to Linguistics* with a minimum grade of C.

Course Delivery

In-person, held in a computer lab. 2x per week, 80 minute meetings. Time is split between lectures on statistical theory and hands-on practice with methods.

Course Materials

Required software includes R and R Studio. Readings may be from various sources, including Bodo Winter's *Statistics for Linguists* and Jessamyn Schertz's *Talking Numbers* online textbook. Readings also include

Tentative Grade Breakdown and Deadlines

Assessment	Weight
Attendance and Participation	10%
Group Assignments	15% x 3 assignments
Midterm Exam	15%
In-class Exam	10%

Assessment	Weight
Take-home Final Assignment	20%
Total	100%