The purpose of the course is to provide instruction in the use of SAS for conducting statistical analyses. Day 1 will cover opening and creating datasets, data manipulation, and t-tests. Days 2 and 3 will cover basic statistical analyses, including categorical analyses, two-sample tests, ANOVA, correlation and regression, and repeated measures analyses. Appropriate graphs will be taught along with the analyses. The basic statistics behind each type of analysis will be reviewed. Day 4 will cover special topics such as programming in SAS and working with sample data.

Day 1
- a) Review basic statistics
- b) Creating datasets
- c) T-tests
- d) Importing data and formatting

Day 2 and Day 3
1. Basic statistical analyses (review of concepts + demonstration of applications in SAS)
   - a) Categorical analysis
   - b) Regression
   - c) Analysis of variance (ANOVA)
   - d) Mixed models

Day 4
2. Advanced statistical analyses (review of concepts + demonstration of applications in SAS)
   - a) Repeated measures analyses
   - b) Logistic regression
   - c) Survival analysis