Syllabus
STAT 675-0001 Multivariate Methods
Northern Illinois University Fall, 2015

Instructor: Duchwan Ryu
Office: 361E Office Hours: MW 1-2 (feel free to ‘drop in’) 
Phone: 815-753-6858 E-mail: dryu@niu.edu

Class: MWF 11:00 am - 11:50 am at DuSable Hall 422


References:

Course Description: This is an introductory multivariate statistical analysis course designed for graduate students in the Division of Statistics, as well as from other disciplines. The goal of this course is to introduce a variety of statistical methods used to analyze multivariate data. Topics covered include multivariate normal distribution, principal components analysis, factor analysis, classification/discrimination as well as cluster analysis.

Intended Learning Outcomes: Upon completion of this course, the students will have knowledge of analyzing multivariate data using multivariate statistical methods.

Assessment:

- Homework: Assignments are to be neat and presented logically on loose-leaf paper. If more than one sheet of paper is used, the assignment must be stapled together. You must show all your work.
• Exams: There will be two take-home exams, a mid-term (Due to Oct. 15) and a final (Due to Dec. 14), and a final project to review a paper (Due to Dec. 14).

• Grade: The course grade will be based on 100 points with Homeworks (30), Mid-term (30), Final (30) and Final Project (10).

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Course Resources: Course website on Blackboard will be noticed.

Course Policies: While there is no mandatory attendance policy, it is your responsibility to turn in your assignments on time. If you do not attend a lecture, it is also your responsibility to get announcements and course notes from other students in the class.

Accessibility: Northern Illinois University is committed to providing an accessible educational environment in collaboration with the Disability Resource Center (DRC). Any student requiring an academic accommodation due to a disability should let his or her faculty member know as soon as possible. Students who need academic accommodations based on the impact of a disability will be encouraged to contact the DRC if they have not done so already. The DRC is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 (V) or drc@niu.edu.

Academic Integrity: Policies on Academic Integrity, Attendance and and Accessibility statement is available at
http://www.niu.edu/stat/courses/pdfs/Accessibility_Statement.pdf.
Proposed Course Schedule:

- Weeks 1-7: Theoretical Background (Chapters 1-7)
- Weeks 8-13, 15-16: Examples (Chapters 9-12)
- Weeks 14: Thanksgiving break