

## COURSE SYLLABUS

Psychology 594  
Multivariate Analysis in Psychology and Education  
Fall, 2010

Instructor:	Teaching Assistant:
Lawrence Hubert	Nate Helwig
433 Psychology Building	418 Psychology Building

Office Hours: Wednesday 1–3 TBA

Lectures: Wednesday and Friday 10-12  
31 Psychology Building

Tentative Topic Sequence:

<i>topic</i>	<i># lectures</i>	<i>reading</i>
Introduction/Matrix Algebra	5	A Statistical Guide for the Ethically Perplexed Matrix Algebra Notes
Matlab Introduction	2	Getting Started Guide Slide Handouts
Random Vectors/Matrices, Linear Combinations, Random Sampling Multivariate Normal Distributions	3	Handout Notes
Principal Components	2	Handout Notes
Factor Analysis	2	Handout Notes
Canonical Correlation	1	Handout Notes
Discrimination/Classification	3	Handout Notes
Clustering/Scaling Proximity Representation	6	My Matlab Toolboxes
Multivariate Methods with R	5	Slide Handouts