

COURSE SYLLABUS

Psychology 594

Multivariate Analysis in Psychology and Education
Fall, 2012

Instructor:

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Office Hours: Wednesday 1–3 TBA

Lectures: Wednesday and Friday 10-12
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Course material is placed at:

http://cda.psych.uiuc.edu/multivariate_fall_2012

Tentative Topic Sequence:

<i>topic</i>	<i>reading</i>
I. Introduction/Matrix Algebra	Matrix Algebra Notes
II. Matlab Introduction	Matlab Primer (online) Slide Handouts
III. Random Vectors/Matrices, Linear Combinations, Random Sampling	Handout Notes
IV. Multivariate Normal Distributions	Handout Notes
V. Principal Components	Handout Notes
VI. Factor Analysis	Handout Notes
VI. Canonical Correlation	Handout Notes
VI. Discrimination/Classification	Handout Notes
VII. Classification and Regression Trees	Handout Notes
VIII. Clustering/Scaling Proximity Representation	My Matlab Toolboxes
Multivariate Methods with R (if time permits)	Slide Handouts