

## PSYC 5401 F - MULTIVARIATE TECHNIQUES

<b>Course</b>	Multivariate Techniques
<b>Instructor</b>	Cecilia Jorgenson
<b>Term</b>	Fall 2020
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<b>Office Location</b>	
<b>Office Hours</b>	Online office hours TBA

### COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

Objectives of this course are to familiarize students with the foundational mathematical concepts of multivariate statistics and to introduce students to the core techniques that form the basis of modern multivariate statistical analyses. I aim for a balance between the mathematical and applied components of multivariate statistics, and we will spend substantial amounts of time working out statistical problems using both hand calculations and software. Most of the course material will be delivered asynchronously. The last hour of scheduled class time will be synchronous to allow for hand-calculations and software demonstrations. These demonstrations will be recorded to allow for asynchronous viewing.

### EVALUATION

Weekly Problem Set (5% each; best 10 out of 12)	50%
Group presentation	15%
Group presentation evaluations	5%
Written report	30%

### TEXT

Textbook: Tabachnick, Barbara G. & Fidell, Linda S. (2019). Using Multivariate Statistics. Published by Pearson. ISBN 9780134790541. This textbook will be available through the university bookstore. This book is also available as an e-book from VitalSource, Kindle and other formats.