

PSYC 5415 F – MULTILEVEL MODELING

Course	PSYC 5415 F: Multilevel Modeling
Instructor	Cecilia Jorgenson
Term	Fall 2020
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Office Location	
Office Hours	Online office hours TBA

COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

This course will introduce students to techniques for multilevel modeling (also known as hierarchical linear modeling or mixed-effects regression). This course will balance conceptual and mathematical understanding, complemented with practice in using multilevel software. Selected topics covered include: understanding nested data, regression with random effects, between- and within-group effects, centering strategies, slopes-as-outcomes, and repeated measures analysis techniques. Most of the course material will be delivered asynchronously. The last hour of scheduled class time will be synchronous to allow for software demonstrations. The software 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: Garson, G. David (2020). *Multilevel Modeling: Applications in STATA, IBM SPSS, SAS, R & HLM*. Published by Sage. ISBN 978144319292. This textbook will be available through the university bookstore. This book is also available as an e-book from VitalSource, Kindle and other formats.