

Course Syllabus (Generalized Linear Models)

COURSE INFORMATION	Course title: Generalized Linear Models Term: 1nd Semester 2016-17 Time: M3M4Mn Room: 840	
INSTRUCTOR	Yu-Jen Cheng	
CONTACT INFORMATION	Institute of Statistics National Tsing-Hua University Room 817, General Building III Hsin-Chu, Taiwan 30043 Office Hours: T5	<i>Phone:</i> 886-3-5715131-33189 <i>Fax:</i> 886-3-5728318 <i>E-mail:</i> ycheng@mx.nthu.edu.tw
COURSE PRE-REQUISITES	Linear Model Mathematical Statistics	
COURSE DESCRIPTION	The course will cover a popular family of conditional probability distributions known as generalized linear models. These models can be used for a wide range of data types and have attractive computational properties. In addition, this course will also focus on the relationship between response and explanatory variables while accounting for the correlation among repeated responses for an individual.	
REQUIRED TEXTBOOKS	none	
OPTIONAL TEXTBOOKS	<ul style="list-style-type: none">Generalized Linear Models, Peter McCullagh and John Nelder, Second Edition. Chapman and Hall/CRC (1989).Analysis of Longitudinal Data, Peter J. Diggle, Patrick Heagerty, Kung-Yee Liang and Scott L. Zeger, Second Edition. Oxford (2002).Generalized, Linear, and Mixed Models, Charles E. McCulloch, Shayle R. Searle, and John M. Neuhaus, Second Edition. Wiley (2008).	
GRADING POLICY	Your grade will be determined by homework (50 %) and a final exam or (project) (50 %). No Late Homework Accepted!	