Course Outline

625.661: Statistical Models and Regression

This outline provides an overview of the course and assignments by week. Please remember to check the calendar for specific due dates.

Each course module runs for a period of seven (7) days, i.e., one week. Due dates for readings and other assignments are referred to by the day of the module week in which they are due. For example, if the module starts on Wednesday (Day 1) and a reading assignment is to be completed by Day 3, then the reading assignment should be completed by Friday. Please note that two modules are covered in each week marked in blue.

Module	Dates	Module Title	Assignments
Module 1, Module 2	Wed 09/02/20– Tue 09/08/20	Introduction of Regression Modeling, Simple Regression	Module 1 DiscussionModule 2 DiscussionModule 1-2 Assignment
Module 3	Wed 09/09/20- Tue 09/15/20	Multiple Regression	Module 3 Discussion
Module 4	Wed 09/16/20- Tue 09/22/20	Multiple Regression	Module 4 DiscussionModule 3-4 Assignment
	Wed 09/23/20- Tue 09/29/20	Test 1	
Module 5	Wed 09/30/20- Tue 10/06/20	Polynomial Regression, Indicator Variables	Module 5 Discussion
Module 6	Wed 10/07/20- Tue 10/13/20	Indicator Variables	Module 6 DiscussionModule 5-6 Assignment
	Wed 10/14/20- Tue 10/20/20	Test 2	
Module 7, Module 8	Wed 10/21/20- Tue 10/27/20	Model Adequacy Checking, Transformation and Weighting, Model Diagnostics	 Module 7 Discussion Module 8 Discussion Module 7-8 Assignment Course project begins
Module 9	Wed 10/28/20- Tue 11/03/20	Model Building with Variable Selection	Module 9 DiscussionModule 9 Assignment
Module 10	Wed 11/04/20- Tue 11/10/20	Model Building with Variable Selection and Model Validation	Module 10 DiscussionModule 10 Assignment
	Wed 11/11/20- Tue 11/17/20	Test 3	
Module 11, Module 12	Wed 11/18/20- Sun 11/22/20	Generalized Linear Models	Module 11 DiscussionModule 12 DiscussionModule 11-12 Assignment



Module	Dates	Module Title	Assignments	
November 23 – 29, Thanksgiving Holidays				
Module 11, Module 12	Mon 11/30/20- Tue 12/01/20	Generalized Linear Models	Module 11 DiscussionModule 12 DiscussionModule 11-12 Assignment	
Module 13, Module 14	Wed 12/02/20- Tue 12/08/20	Nonlinear Regression, Nonparametric Regression	Module 13 DiscussionModule 14 DiscussionModule 13-14 Assignment	
	Wed 12/09/20- Tue 12/13/20	Course Project (Due 12/13/2020)		

