朝陽科技大學 099學年度第2學期教學大綱
Environmental Statistics 環境統計

當期課號	1684	**Course Number**	1684
授課教師	林宏嶽	**Instructor**	LIN,HUNG YUEH
中文課名	環境統計	**Course Name**	Environmental Statistics
開課單位	環境工程與管理系(四日)二A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	3	**Credits**	3
課程目標	本課程旨在培養學生利用統計原理進行推論，以解決環境之問題。本課程將介紹推論統計中之估計、檢定以及迴歸分析等原理，並藉由課堂演練及作業，讓學生掌握各項原理之內涵。	**Objectives**	This course introduces the practical theorems of statistics. Students are proposed to be capable of applying these theorems in environmental problems. The course will introduce the theorems in inferential statistics, including the estimation, test and l
教材	Intro stats (2nd edition) De Veaux, Velleman and Bock Pearson (東華） 應用統計學（二版） 林惠玲、陳正倉 雙葉 Applied Statistics and Probability for Engineers Douglas C. Montgomery; George C. Runger. Wiley 2nd Ed. New York. Statistical Methods for Environmental Pollution Monitoring Van Nostrand Reinhold, New York.	**Teaching Materials**	Intro stats (2nd edition) De Veaux, Velleman and Bock Pearson Applied Statistics and Probability for Engineers Douglas C. Montgomery; George C. Runger. Wiley 2nd Ed. New York. Statistical Methods for Environmental Pollution Monitoring Van Nostrand Reinhold, New York.
成績評量方式	期中考：35%，期末考：35%，小考：30%	**Grading**	midterm: 35% final:35%, quizzes:30%
教師網頁			
教學內容	1.推論統計部分：包含連續，離散變數之機率分配、抽樣分配、統計估計，假設檢定、直線迴歸： 2.統計學於環境工程之應用：污染採樣之應用，污染預測模式之應用	**Syllabus**	1. inferential statistcs: continious and discrete probability distribution, smpaling distribution, statistic estimation, statistical testing, linear regression. 2. applications in environmental engineering: pollution sampling, pollution prediction model.

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