学生版课程大纲 / Course Syllabus for Students

学科名称 Course Name	<u>Statistics</u>	任课教师 Instructor	Qiang Song
周课时 Weekly Hours	<u>5</u>	授课地点 Classroom	3206
学生层次 Grade	12	班级 Class	10

教学目标	The course is the second half part of an introduction to Probability and Statistics,		
Teaching Objectives	which can be served as an AP Statistics course.		
学习效果	Students would understand the basic probability concepts and statistics topics		
Learning Outcomes	including confidence interval, hypothesis test, chi-square test and simple linear		
	regression model.		
使用教材	Introduction to Statistics & Data Analysis, 3 rd Edition, by Roxy Peck, Chris Olsen, and		
Textbooks	Jay Devore.		
评估方式	10% Attendance, 10% Homework, 15% Participating in Class and 65% Final.		
Assessment Strategies			
	第 1 周 Week 1 Review (normal distribution), Ch.8 The Sampling Distribution		
	第 2 周 Week 2 Ch.9 Confidence Interval for a Population Proportion & a Population		
	Mean		
	第 3 周 Week 3 Hypothesis Test Procedures & Hypothesis Tests for a Population		
	Proportion (Sec. 10.1, 10.2 10.3)		
	第 4 周 Week 4 Hypothesis Tests for Population Mean (Sec. 10.3 & 10.4), Type II		
	Error (Sec. 10.5)		
	第 5 周 Week 5 The Difference Between Two Population Means Using Independent		
	Samples & Paired Samples (Sec. 11.1 & 11.2)		
内容和时间安排	第 6 周 Week 6 The Difference Between Two Population Proportions (Sec. 11.3)		
Topics & Timeline	第 7 周 Week 7 Chi-Square Test (Sec. 12.1)		
	第 8 周 Week 8 Testing Homogeneity and Independence (Sec. 12.2)		
	第 9 周 Week 9 Simple Linear Regression Model (Ch. 13)		
	第 10 周 Week 10 Review		
	第 11 13 周 TBA		
	· Outline of concepts and formulas can be found in class homepage		
说明	http://mathsong.github.io/APstat		
Remarks	· We will review AP exam paper in problem session every week to prepare for the		
	test in this May.		
	· You are encouraged to search online supplementary learning resources, like		
	https://www.khanacademy.org/math/probability		