



## Course description

<b>Course No.</b>		<b>College</b>	Science	<b>Dept.</b>	Mathematics
<b>Teacher</b>	Zhengsheng Wang				
<b>Time</b>	2018.06.25-2018.07.27				
<b>Course Name</b>	<b>English</b>	Introduction to Statistics			
	<b>Chinese</b>	统计学概论			
<b>Course credit hours</b>	<b>Total</b>	<b>Theory</b>	<b>Self-study or Practice</b>	<b>Credits</b>	
	48	40	8	4.0/3.0	
<b>Course description :</b> Describe the nature, academic status, and aims of the course (theory, ability and technique)					
<p>Introduction to Statistics is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world. Students also have the opportunity to analyze data sets using technology in their weekly laboratory discussions.</p>					
<b>Requirements for courses; ability and knowledge in advance</b>					
None					
<b>Course structure explanation:</b>					
Make clear the necessary parts, optional parts, distribution of hours. Courses with experiments or practice are expected to explain credit hours needed, content, scheme and functions.					
<p>Week 1            Displaying Data, Bar Chart, Contingency Table, Boxplot, Histogram            Normal Distribution, Standard Deviation            Scatter Plots, Correlation, Linear Regression</p> <p>Week 2            More on Regression, Randomness            Sample Surveys, Experiments            Probability Rules</p>					

Week 3  
 Probability  
 Random Variables  
 Probability Models

Week 4  
 Sampling Distribution Models, CLT  
 Confidence Intervals for Proportion  
 Hypothesis testing

Week 5  
 Inferences About Means  
 More about inference  
 Comparing Two Populations, Review for Final Exam, Final Exam

**Teaching methods (Lectures, practice, etc.)**

Lectures and self-study

**Forms of evaluation and requirements**

**Structure of the final grade (including presence, class performance, ), focus of exam, forms of exam (test, interview, final report, etc)**

Homework and final exam

	<b>Name</b>	<b>Publisher</b>	<b>Author</b>	<b>Year</b>	<b>Price</b>
<b>Textbook</b>	Intro Stats by De Veaux, Velleman and Bock	Pearson	De Veaux, Velleman and Bock	2011	