Introduction to probability & statistics

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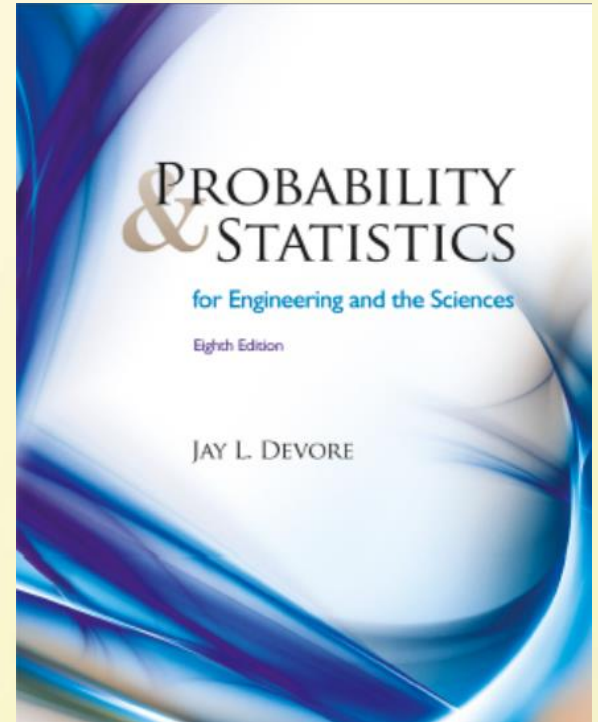# Introduction to the course

How will study this course ?

What is this course involved ?

Textbook & Reference book

Textbook:

Jay L. Devore, Probability and Statistics for Engineering and the Sciences (the 8th ed.)

Reference:

概率论与数理统计（第四版），盛骤，谢式千，潘承，北京：高等教育出版社，2008.6

干晓蓉. Probability & statistics, Wuhan University Press, 2009.

Why Study Probability & Statistics?

- **Probability** measures uncertainty formally, quantitatively. It is the mathematical language of uncertainty.

- **Statistics** show some useful information from the uncertain data, and provide the basis for making decisions or choosing actions.

Course Content and time arrangement

Chapter	Contents	Time
1	**Overview and Descriptive Statistics**	3 hours
2	**Probability**	6 hours
3	**Discrete Random Variables and Probability Distributions**	9 hours
4	**Continuous Random Variables and Probability Distributions**	9 hours
5	**Joint Probability Distributions and Random Samples**	6 hours
6	**Point Estimation**	6 hours
7	**Statistical Intervals Based on a Single Sample**	6 hours
	Review	3 hours

Evaluation Methods

- Final exam (70%, close book test)
- Class performance (20%, includes attendance, quizzes and question)
- Homework (10%)

THIS IS THE END!

Thank You !