

STAT W1211 Introduction to Statistics (with Calculus)

- **Instructor**

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Office hours: 4-5:30pm, Monday, School of Social Work Rm 901

- **Lecture Time**

8:40-9:55am MW, 207 Math

- **Course Description**

We will cover topics including discrete combinatorial probability; discrete and continuous distributions; common discrete and continuous random variables; population mean, variance, covariance and their sample analogs; point estimation; confidence interval; hypothesis testing; linear regression.

- **Prerequisites**

One semester of uni-variate Calculus. You should be familiar with derivatives and integrals of basic functions, chain rules for differentiating composite functions and integration by substitution and integration by parts techniques. We will also do some statistical computation with R statistical computing environment. So some prior exposure to programming is expected.

- **Method of Evaluation**

There will be weekly homework assignments (due on Wednesday), 2 quizzes, 1 midterms and 1 final exam. Their contributions to your grade will be respectively 30%, 10%, 25% and 35%. A tentative calendar is given in Table 1.

- **Textbook**

Probability and Statistics for Engineering and the Sciences, 8th edition, Jay Devore, Brooks/Cole, 2012

- **Teaching Assistant**

TBA