

Statistical Methods I - SYLLABUS

•**Instructor:** Jing Wang

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•**Lectures:** M W F 10:00 a.m. - 10:50 a.m., 316 Burnham Hall

•**Office hours:** M F 11:00 a.m. – 12:00 p.m. Tu 3:00 p.m.- 4:00 p.m.

•**Textbook:** The 2nd edition of *Applied Statistics for Engineers and Physical Scientists* by Robert Hogg and Johannes Ledolter, Macmillan Publishing Company

•**Course Description:** This is an introductory course in Probability and Statistics for Engineering and physical majors. The prerequisite for the course is MTH 210. The topics to be covered are descriptive statistics, probability models, random variables, sampling distribution, estimation and hypothesis testing. We will cover most of the material of Chapter 1 through 4 and Section 6.1 from the text, on a post calculus level. Includes SAS applications.

•**Grades:** Points are earned through homework and quizzes, midterm and comprehensive exam. Your final grade is based on percentage of total grade points.

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|----------------|-------------------|-------------|-------------------|--------------------------|
| Homework: | 100 points | Quizzes : | 100 points | |
| Midterm Exams: | 80 points | Final Exam: | 120 points | Total: 400 points |
| A | 90 -100% | B | 80 -89.9% | C 65 -79.9% |
| | | D | ≤64.9% | |

• **Dates of Homework, Quizzes and Exams**

Homework: Every Wednesday
 Quizzes: Every Wednesday
 Midterm 1: October 4th
 Midterm 2: November 8th
 Final Exam: December 13th .

• **Make-up Exams:** No make-up quizzes or exams can be given without valid excuse.

• **Note:** All exams are "closed book" and "closed notes". The exams will contain questions concerning text material and problems, classroom examples and discussions. Graphing calculator could be used in the exam. Students should bring and display their UIC ID cards during exams.

• **Lecture Schedule:**

| Weeks | Lecture Contents |
|---------------------|--------------------------------|
| wk1. 08/28 - 09/01 | 1.1—1.3 |
| wk2. 09/04 - 09/08 | Labor Day; 1.3—1.5 |
| wk3. 09/11 - 09/15 | 2.1 |
| wk4. 09/18 - 09/22 | 2.2—2.3 |
| wk5. 09/25 - 09/29 | 2.3 |
| wk6. 10/02 - 10/06 | Review; Midterm 1 ; 2.4 |
| wk7. 10/09 - 10/13 | 2.4—2.5 |
| wk8. 10/16 - 10/20 | 3.1—3.2 |
| wk9. 10/23 - 10/27 | 3.2—3.3 |
| wk10. 10/30 - 11/03 | 4.1—4.2 |
| wk11. 11/06 - 11/10 | Review; Midterm 2 ; 4.3 |
| wk12. 11/13 - 11/17 | 4.3—4.4 |
| wk13. 11/20 - 11/24 | 4.5; Thanksgiving |
| wk14. 11/27 - 12/01 | 6.1 |
| wk15. 12/04 - 12/08 | 6.1; Final Review |
| Wk16. 12/13 | Final Exam |

Important Dates:

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| Aug. 28 | Instruction begins. |
| Sept. 4 | Labor Day holiday. No classes. |
| Sept. 8 | Last day to complete late registration. Last day to add/drop a course(s) via the Web. |
| Oct. 6 | Last day to withdraw from a course(s) with college permission. |
| Nov. 23-24 | Thanksgiving holiday. No classes. |
| Dec. 8 | Instruction ends. |
| Dec. 11-15 | Final examinations. |

The instructor reserves the right to make any changes in the course she determines academically advisable. Changes will be announced in class. It is your responsibility to keep up with any changed policies.