

Statistics 511 Syllabus for Spring 2012

Location: Howe 1344

Time: 11:00 – 11:50 a.m. MWF

Instructor: Dan Nettleton

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Phone: 515-294-7754

Office: Snedecor 2115

Hours: 2:10-3:00 on Tuesday and 9:00-9:50 on Thursday
or other times by appointment

Course Topics

- Linear Models
- Linear Mixed Models
- Nonlinear Models
- Generalized Linear Models
- Smoothing Methods
- Bootstrap Methods

Prerequisites

- STAT 402, 404, or 500
- STAT 447 or 542 with current enrollment in 543
- Knowledge of matrix algebra

Grading

Homework	20%	
Exam 1	25%	Wednesday, February 22, 7:00–9:00 p.m.
Exam 2	25%	Wednesday, April 4, 7:00–9:00 p.m.
Final Exam	30%	Wednesday, May 2, 9:45–11:45 a.m.

On exam days, be sure to arrive early with a calculator and pen or pencil. No make-up exams will be given unless circumstances are exceptional.

Grading (continued)

- Your final course score will be determined by the following formula:

$$\text{Course Score} = 0.20H + 0.25M_1 + 0.25M_2 + 0.30F,$$

where H , M_1 , M_2 , and F represent the score out of 100 possible on homework, midterm exam 1, midterm exam 2, and the final exam, respectively.

- Letter grades will be assigned according to the course scores.
- Students with similar course scores (as judged by the instructor) will receive similar letter grades. The order of the letter grades will match the order of the course scores.

Homework

- The main purpose of all homework assignments in STAT 511 is to help you learn the course material.
- All homework assignments will be posted at <http://www.public.iastate.edu/~dnett/S511/hw.shtml>.
- Due dates are posted on the web site and written on the homework documents.
- No late homework will be accepted, but your lowest homework score will not be used to compute your grade.
- Answers to homework assignments should be neatly written or typed and well organized with no extraneous information.
- You are welcome to work with other students on homework problems. You must, however, write your own answers to the questions. Copying another's work is prohibited.

Software

- STAT 511 requires the use of R.
- R is a language and environment for statistical computing and graphics.
- To download and install R for free, see <http://www.r-project.org/>.
- R material relevant for STAT 511 will be posted at <http://www.public.iastate.edu/~dnett/S511/r.shtml>.
- Videos on computing are available at <http://www.public.iastate.edu/~pdixon/stat511/computing.html>

Resources

- No textbook is required for STAT 511.
- STAT 511 Web Page at <http://www.public.iastate.edu/~dnett/S511/stat511.shtml>
- Professor Philip Dixon's STAT 511 Web Page at <http://www.public.iastate.edu/~pdixon/stat511/>
- Professor Ken Koehler's STAT 511 Web Page at <http://www.public.iastate.edu/~kkoehler/stat511/stat511.html>
- Professor Steve Vardeman's STAT 511 Web Page at <http://www.public.iastate.edu/~vardeman/stat511/stat511.html>
- Teaching assistant is Jing Li <lijing@iastate.edu>. Her office hours are Tuesdays from 3:10 – 4:00 p.m. in 3406 Snedecor.

All students have the opportunity to earn good grades in STAT 511 by learning the course material well. Please let your instructor know of any difficulties as soon as possible. If a student has a disability that qualifies under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act and requires accommodations, he/she should contact the Student Disability Resource (SDR) office for information on appropriate policies and procedures. SDR is located on the main floor of the Student Services Building, Room 1076. Their phone number is 515-294-7220.