

## Stat 511 Spring 2009

**Instructor :** Prof. Stephen Vardeman  
3022 Black Engineering Building (and 2451 Wilson Hall)  
[vardeman@iastate.edu](mailto:vardeman@iastate.edu)  
<http://www.public.iastate.edu/~vardeman/>

Phone: 294-9068

Fax: 294-3524

Office Hours: **12 MW, 3:40 T** (all in Black Engineering) **and as arranged** (for time and location ... 12 F and 3:40 on some Thursdays will typically be most convenient)

**Assistant:** Iliana Vaca  
2439 Wilson Hall  
[ivaca@iastate.edu](mailto:ivaca@iastate.edu)  
Phone: 294-3554  
Office Hours: W3, R2, F4

**Required Textbook:** *Extending the Linear Model with R: Generalized Linear, Mixed Effects and Nonparametric Regression Models* by Faraway (for the 2<sup>nd</sup> half of the course)

**Other Useful Books:** *Linear Models in Statistics* (2<sup>nd</sup> Edition) by Rencher and Schaalje  
*Plane Answers to Complex Questions* (3<sup>rd</sup> Edition) by Christensen  
*Applied Linear Statistical Models* (4<sup>th</sup> Edition) by Neter et al.  
*Modern Applied Statistics with S* (4<sup>th</sup> Edition) by Venables and Ripley

**Class Schedule:** 11 MWF 1134 Sweeney

**Course Web Page:** <http://www.public.iastate.edu/~vardeman/stat511/stat511.html>

**Flash "Movies" From 2008 Stat 511 Lectures:** These will be available at  
<http://www.stat.iastate.edu/courses/>

**Final Exam:** 9:45-11:45 Monday May 4<sup>th</sup>

<b>Course Grading:</b>	Exam 1	25%	(T 2/24/09 7-9 PM, 171 Durham)
	Exam 2	25%	(T 4/7/09 7-9 PM, 171 Durham)
	Final Exam	40%	(5/4/08 9:45-11:45 AM, Location TBA)
	Homework	10%	

**Schedule:** Vardeman will be out of town (there will be no lectures) 4/1/09 and 4/3/09. These classes will be made up by the evening exams.

**Homework:** Homework will be due on Fridays, either in class or by 5 PM at the TA's office in Wilson Hall. Copies of the assignments and solutions will be posted on the course homepage.

You may ask Vardeman (or Iliana) for (limited) help with the assignments. And you may discuss the homework with fellow students. But each individual must **independently** write up his or her own assignments for turning in. **This is an integrity issue. Do not** copy what someone else has written and turn it in as your own. **Do not** use someone else's R code.

**You must use your own words, symbols, and code.** Each student will attach a cover sheet to his or her assignment with the following **written out, signed, and dated** in his or her own handwriting:

*I have neither given nor received unauthorized assistance on this assignment.*

**Computing:** All computing for the course will be done in R (an open-source implementation of S). There is a link to the R web page on the course homepage. The software may be downloaded for free. It will be fundamentally your own responsibility to learn how to use R. (This will not be the subject of much, if any, class discussion). A link on the main R web page will take you to on-line manuals, and in particular to "An Introduction to R." If you are not familiar with R, you should read through that document, play around with the software, and quite possibly work through the "A Sample Session" part of the document during the first week of class.

### **Accommodation for Students with Disabilities**

Iowa State University complies with the American with Disabilities Act and Sect 504 of the Rehabilitation Act.

If you have a disability and anticipate needing accommodations in this course, please contact Vardeman before the end of the 2<sup>nd</sup> week of the semester. Later requests for accommodations may not be honored. Anyone requesting an accommodation will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 of the Student Services Building.