

**Instructor Information:**

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Email using ANGEL email tools under Communicate tab. Emails received outside of ANGEL may go unanswered! NOTE: If you have your ANGEL email forwarded to another internet account then hitting reply to that email will NOT resend through ANGEL but instead in webmail. These, too, will not be answered. You will need to return to ANGEL and reply using the ANGEL email tools.

**Office Hours:** by appointment

**Prerequisite:** 6 credits in statistics; matrix algebra

**Description:** This course offers an introduction into regression analysis. A researcher is often interested in using sample data to investigate relationships, with an ultimate goal of creating a model to predict a future value for some dependent variable. The process of finding this mathematical model that best fits the data involves regression analysis. Topics will include: simple and multiple linear regression, inference, diagnostics, building a regression model, and correlation. We will use the statistical software **Minitab** to conduct our analyses. Minitab is loaded on the campus computers. If you plan on working away from campus you may want to consider purchasing a copy at the PSU Computer Store or downloading a free 30-day trial at [www.minitab.com](http://www.minitab.com) **Minitab is not supported on MACs.**

**Text:** *Applied Linear Statistical Models* (5<sup>th</sup> edition), Kutner, Nachtsheim, Neter and Li

**NOTE:** Please bring the text with you to lab meetings.

**Grading:**

- Practice Homework: 10% (10 assignments) Must be handed in by/on due date.
- Best 10 of 11 in-class quizzes (no make ups, must be taken in class): 10%
- Midterms (2) 20% each ( Friday 10/9 and Monday 11/16)
- Final (cumulative) during University scheduled time 40%

F	D	C	C+	B-	B	B+	A-	A
0	60	70	77	80	83	87	90	93

**Collaboration:** Although you are expected to complete the work on your own, I understand that a certain amount of collaboration may occur. However, you must turn in your own work which presumably reflects your understanding of the material. I advise all of you to consult the Penn State Academic Integrity Policy at:

<http://www.science.psu.edu/academic/Integrity/index.html>