Collect Data on Students

Go over Syllabus

Prerequisites:

You should have had a course in basic statistics.

You should know the terms:

- Point Estimate
- Confidence Interval
- Test of Hypothesis: null and alternative hypotheses, type I and type II errors, test statistic, p-value, significance level, proper conclusions

You need to have a basic comfort level with matrix expressions of equations. Examine chapter 5. If you are not comfortable with the type of notation used here, this is not the proper course for you.
Applications of Regression:

What are the important risk factors for heart disease?

{ age, smoking habits, family history of the disease, blood pressure levels, stress levels}

What are the best predictors of an undergraduate's success in college?

{ HS GPA, SAT verbal score, SAT math score, the number of AP or advanced credits in HS, leadership roles in HS}

What factors make an applicant for admission to the US a potential security risk?

{nationality, religion, age, previous residency history}
Purpose of the Course:

Model the relationships between variables of interest

Determine whether the model is useful for prediction

Determine whether a simpler model is just as good or whether a more complicated model is better

Make predictions based on the model and give indication of the strength of this prediction

We will use the software R exclusively in this course.
Assignments

are given at the beginning of each class period and are also available on the class website.
They include:

Pages to read in the textbook.

Focal Points (The main points of emphasis in today's lecture. Learn these before the next class period.) The Quizzes are based on the focal points.

Exercises to perform (These will be collected periodically) Do these as they are assigned!

Keep up-to-date in your work!!!
Actuarial Science

STA 4210 is a required course for the minor in Actuarial Science. Students interested in actuarial science need VEE credits in Economics, Corporate Finance and Applied Statistics. The course STA 4210 satisfies the SOA requirement for VEE credits in Applied Statistics.

You must achieve a grade of B or better to receive VEE credit for taking approved courses.

For more information on Actuarial Science, see the website:
www.stat.ufl.edu/academics/ugrad/ActuarialScience/index.htm