# STAT 285
# Overview and Intro

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STAT 285 — Fall 2014 — Surrey

# Purposes of These Notes

- Outline the contents of this course
- Establish the grading structure
- Outline expectations
- Discuss coverage in text

# Me

- Richard Lockhart.
- `lockhart@sfu.ca`.
- `http://www.stat.sfu.ca/~lockhart`.
- Surrey ??.
- Office hours: Tuesday 11 to 12:30, Thursday 10 to 11:30.
- You are free to drop in whenever I am there with the door open – Tues, Thur.

# The Text

- *Probability and Statistics for Engineering and the Sciences*, 8th ed., by Jay L. Devore. Publisher: Duxbury Press
- **Coverage**: ??

# Assignments

- Weekly.
- The first is due next Thursday, 11 September.
- They have computing components, writing components, data analysis components, and mathematical components.
- You need words and explanation of what you are doing.

# Top Hat

- We will also use the Top Hat Classroom response system; see http://www.tophat.com.
- The department will be picking up the cost this year but the system will be required; a cell phone with texting or a smart phone or a tablet or a computer will be needed.
- To start the course I am undertaking to include use of Top Hat in the grading scheme.
- This will be reviewed at the end of week 3; I may remove it from the grading.
- But I will persevere with it for the course.

# Grading

- Top Hat Questions (5% for participation, 5% for correct answers) 10%
- Assignments are worth 10% of your final grade.
- You are free to talk to each other about them but if I think you are copying each other I will be livid.
- The midterm is worth 25% and there is a final exam worth 55%.
- The midterm is October 16.

# Other

- **Web**: I will put lecture notes on the web in advance; I expect you to read them in advance. I will tell you the next topic at the end of each lecture.
- Please bring them along to class to add to if you are the sort who likes to take notes.
- You should feel free to look at other courses I have offered over the years.
- Computing Requirement: a mandatory computing component likely using `JMP or R`.

# Detailed Course Outline

- Review of STAT 270 material and relationship to this course
- Statistical Models
- Parameter estimation - least squares and likelihood methods
- Hypothesis tests
- Introduction to Regression Analysis - simple and multiple
- Analysis of Variance
- Introduction to lifetime analysis.