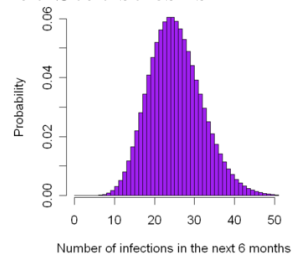


# Outline

## What Statistics is

### What Statistics is



- Data: collecting, organizing, interpreting.
- Understand world, choose how to act.
- Separate sense from nonsense.

### In this course



- Learn about most important concepts and techniques in statistical work.
- Provides understanding of use of Statistics in your own field.
- Gain *understanding* from data.
- From data through analysis to conclusions.

## What to expect

### What to expect



- Learn concepts, their interrelationships.
- Some calculation.

- Interpretation of software output.
- As little math as we can manage!

## The instructor

### The instructor



- Ken Butler, e-mail `butler@utsc.utoronto.ca`.
- Office: IC471
- Office hours: before class on Tuesdays (1:00-2:00), after class on Thursdays (4:00-5:00).
- E-mail will always reach me.

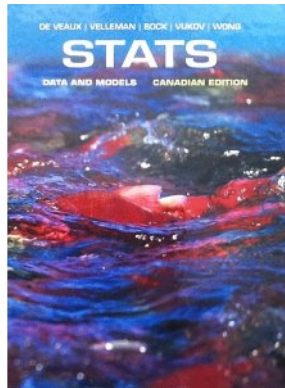
## Course structure

### This course

- 2 lectures a week.
- 1 tutorial a week, starting *next* week.
- Tutorials: help practice what you learned, also *quiz*.
- Assigned problems via MyStatLab (not graded).
- Midterm and final exams, *multiple choice*.

## Text and software

### The text



- Stats: Data and Models
- DeVeaux, Velleman, Bock, Vukov, Wong
- Canadian edition, publ. Pearson Canada

#### Software



- We use StatCrunch software (on web).
- Requires access code (comes with text or can buy separately).
- Better tested than Excel, easy to learn.
- I show you what to do.
- Learning StatCrunch enables you to analyze realistic data.

#### Assessment

##### Assessment

Item	Percent of grade
Quizzes	20%
Midterm exam	30%
Final exam	50%

##### Quizzes:

- in each tutorial except last.
- 10 quizzes, best 9 count for your grade.

- Intended to be straightforward if you are keeping up with material.

Usually 20%–25% A's in the course. Less than 5% of all students who complete the course work fail.

### The exams

- *Multiple choice*, about 40 questions (midterm), 60 (final).
- Allowed “cheat sheets”: 1 for midterm, 2 for final, but no other books/notes.
- You'll need a *calculator*:



## Makeups and late work

### Makeups

- There are *no* makeup exams or quizzes.
- *With documentation*:
  - missed quizzes ignored in calculation of average.
  - weight of missed midterm exam taken on final exam.
- Without documentation: any missed work scores 0.

## Course material

### What we cover

Parts I–VI (Chapters 1–26) of the text:

- Exploring and Understanding Data
- Exploring Relationships between Variables
- Gathering Data

- Randomness and Probability
- From the Data At Hand to the World At Large
- Learning About the World

## Frequently asked questions

### Frequently asked questions



Currently living at:

<http://www.utsc.utoronto.ca/~butler/b22/faq.html>

Check before you ask your instructor.

## Course website

### Course website

at <http://www.utsc.utoronto.ca/~butler/b22>

- Announcements go there.
- Quiz marks go on **Intranet**.
- Not using Blackboard. There is a link to course website there.