

**QUEEN'S UNIVERSITY**  
**STAT 367: Engineering Statistics**  
**Winter, 2010**

Instructor: Charles Molson, Jeffery 206, [cmolson@mast.queensu.ca](mailto:cmolson@mast.queensu.ca), 613-533-2416

Text: **Engineering Statistics** 4<sup>th</sup> Edition, by D.L. Montgomery, et al. (**3<sup>rd</sup> Ed. is fine**)  
**Minitab** statistical software, bundled with the text

Evaluation	: Weekly WebCT quizzes	10%		10%
	Midterm test (covers to the end of ch. 4)	30%	or	10%
	Final exam. (covers entire course)	60%	or	80%

Approved calculator and **one** standard page of formula/notes, **hand written one-side of sheet**, allowed for term test; approved calculator and **one** standard page of formula/notes, **hand written both sides of sheet**, of formula/notes allowed for final exam. Programmable and/or graphing calculators are not allowed. **The text book may not be brought to either the term test or exam.** Necessary statistical tables will be provided with term test and final exam. Tables of single-sample hypothesis testing and interval estimate procedures (printed on end pages of text and posted on WebCT) will be provided with term test. Tables of single-sample and two-sample hypothesis testing and interval estimate procedures from the text will be provided with the final exam.

The two quizzes with the lowest marks will be dropped when calculating the quiz portion of the final grade. Each student's final mark will be the higher of the 10%, 30%, 60% or 10%, 10%, 80% evaluation schemes.

You can logon to the course **WebCT** site at [www.its.queensu.ca/webct](http://www.its.queensu.ca/webct). Quizzes and suggested homework questions and solutions will be posted on this site as well as course information (this handout for example), a discussion board, and the PowerPoint presentations used in class.

**The course will follow the textbook closely, omitting Sections 4-8, 5-8.2 and Chapter 7.**  
**Course Topics:**

<b>Chapter</b>	<b>Topics</b>
<b>1</b>	<b>The Role of Statistics in Engineering</b>
<b>2</b>	<b>Data Summary and Presentation</b>
<b>3</b>	<b>Random Variables and Probability Distributions</b>
<b>4</b>	<b>Decision Making for a Single Sample</b>
<b>5</b>	<b>Decision Making for Two Samples</b>
<b>6</b>	<b>Building Empirical Models</b>
<b>8</b>	<b>Statistical Quality Control</b>