Template Syllabus and Schedule

Instructor:
Office:
Office Extension:
E-mail Address:
Math Department Secretary Extension:
Office Hours:

Course Goals To prepare students for other core science classes, to provide students with quantitative and analytical skills that will be useful in day-to-day living and some level of confidence in their ability to use those skills.

Required Textbook: Using and Understanding Mathematics-A Quantitative Reasoning Approach (third edition), By Bennett & Briggs

Required Calculator: TI-30XA

Grading System: 4 or 5 Quizzes & homework - 15% of the grade
Three in-class exams - 45% of the grade
Labs - 10% of the grade
Lab Final - 5% of the grade
Post Test - 5% of the grade
Group projects 20% of the grade

Final Grade: The final grade will be calculated as follows:
Final score = (0.15) quiz grade + (0.15) exam-1 grade + (0.15) exam-2 grade + (0.15) exam-3 grade + (0.05) lab final grade + (0.05) posttest grade + (0.20) project grade. A score in the 90's will receive at least an A-, a score in the 80's will receive at least a B-, a score in the 70's will receive at least a C, and a score in the 60's will receive at least a D.

Attendance: Class attendance is required.

Homework: Homework assignments will be given and collected regularly. The use of homework as a factor in grade determination is at the discretion of the instructor.

Missed Exams: There is no makeup exam. If there is a valid reason for missing an exam, the instructor must be notified in writing.

Labs: The purpose of the lab periods is to allow you to learn about the use of spreadsheet programs in analyzing real problems. For most of the labs, you will have the opportunity to work with another student, while using a spreadsheet program. By doing so, you can learn from other students and gain from the experience of communicating your knowledge to others.

All of the lab periods this semester will be held in a computer lab (University Hall Room 2717).

Attendance and punctuality at each lab is required and the grade for each lab project will be based in part on participation in the project.

Academic Honesty: Academic dishonesty will be treated as an extremely serious matter, with serious consequences that range from receiving no credit for assignments/tests to expulsion. It is never permissible to turn in any work that has been copied from another student or copied from a source without properly acknowledging the source. It is your responsibility to make sure that your work meets the standard of academic honesty set forth

in the Honor Code. See the section on “LMU Honor Code and Process” in the *Undergraduate Bulletin 2005-2006* pages 61 – 64.

Schedule from Fall 2005

	M	W	F	Lab	Week #	Class Day #
Aug.	**29** Intro, 2A-Problem Solving Power of Units	**31** 2B-Standardized Units	**2 Pre-test**	Excel Overview	**1**	**1 to 3**
Sept.	**5 Labor Day**	**7** 3A - Uses and Abuses of %	**9** 3A - Uses and Abuses of %, **quiz 1**	**No Lab**	**2**	**4 to 5**
	12 3B-Putting Numbers in Perspective, 3C- Dealing With Uncertainty	**14** 4A - The Power of Compounding	**16** 4A - The Power of Compounding	Project: Mustang Configuring	**3**	**6 to 8**
	19 4B-Savings Plans and Investments	**21** 4B-Savings Plans and Investments	**23** 4B-Savings Plans and Investments, **quiz 2,** project groups and projects assigned	Project: Mustang Financing	**4**	**9 to 11**
	26 Stage 1 Model project	**28** Review for Exam I	**30 Exam I**	Project: Course Tracking	**5**	**12 to 14**
Oct.	**3** 4C-Loan Payments, Credit Cards and Mortgages	**5** 4C-Loan Payments, Credit Cards and Mortgages	**7** 5A-Fundamentals of Stats.	Project: Graphs	**6**	**15 to 17**
	10 Sampling	**12** 5B-Should You Believe a Statistical Study?	**14** Stage 2 Model, **quiz 3, Stage 1 deadline**	Project: Budget 1	**7**	**18 to 20**
	17 5C-Statistical Tables and Graphs	**19** 5D-Graphs in Media (or Horizons article[3]) use examples from model project	**21** 6A-Characterizing a Data Distribution	Project: Budget 2	**8**	**21 to 23**
	24 Fall Break	**26** Review for Exam II	**28 Exam II**	**No Lab**	**9**	**24 to 25**
Nov.	**31** 6B-Measures of Variation	**2** Stage 3 Model, **Stage 2 deadline**	**4** 6C-The Normal Distribution	Project: Savings and Loans	**10**	**26 to 28**
	7 6C-The Normal Distribution	**9** Central Limit Theorem	**11** Central Limit Theorem, 6D, Statistical Inference, **quiz 4**	Project: Credit Cards	**11**	**29 to 31**
	14 6D-Statistical Inference (our version)	**16** 6D-Statistical Inference (our version)	**18** Stage 4 Discussion, **Stage 3 deadline**	Project: Checkbook	**12**	**32 to 34**
	21 projects	**23** 4D - Income Taxes	**25 Thanksgiving Break**	**No Lab**	**13**	**35 to 36**
	28 4D-Income Taxes	**30** Review for Exam III	**2 Exam III**	Excel Review	**14**	**37 to 39**
Dec.	**5** 1040EZ	**7** Review for post-test, **Stage 4 deadline**	**9 Post-test**	Excel Final Exam	**15**	**40 to 42**

Dates are shown on the left of the cell.

[3] The Horizons article referred to is "Graphic Violence" by Dale Hathaway (*Math Horizons* April 2005, pp. 14 – 16). In this article, several of the most common misleading features of charts and graphics are described and real examples found in the media are given.

Assignments

In addition to homework problems being assigned from the text, the students work throughout the semester on their group projects. The required work for the projects is divided into four stages and a description of what is due at each stage can be found in Section 2a. Course Management, Strategies, Project Assignments and Evaluation Rubrics.

SENCER QL Course Website

The following website provides access to all the materials necessary for using a collaborative projects approach in a QL course along with our advice on using these materials: http://myweb.lmu.edu/tzachari/sencer.html