Course description: An introduction to mathematical and statistical techniques used in economic analysis. Topics to be covered are: sources and uses of economic data, probability, hypothesis testing, and regression analysis. Emphasis is on the application of statistical techniques to economic problems.

Prerequisite: Economics 100.

Readings: The required text for this course is: Essentials of Statistics for Business and Economics 6e by Anderson, Sweeney, and Williams (South-Western publisher).

In addition to the text we may also read articles from journals and magazines. You should regularly check the course Sakai site. It is from Sakai that I will direct you to the articles to read.

This course, like just about every other course in economics, is very topical. Nearly every day you will be able to find articles of interest for this course in the relevant quality newspapers. Accordingly, a requirement of this course is that you keep in touch with the latest developments in the U.S. economy. You can find such material in the Financial Times (http://www.ft.com/), and the business section of the New York Times (Business and Financial News - New York Times).

Classroom Etiquette: You are expected to be considerate of other students in this class. Please be in class on time and to remain until class ends. Please do not speak privately to other students. Please do not use your phone during class time. Please do not eat in class.
Course Grade: There will be three tests, a comprehensive final exam, quizzes, and problem sets. Problem sets will be assigned several times during the course. You are allowed to work in small groups, 2 or 3 people, on the problem sets. If you chose to do this the group should submit one set of answers and both/all members of the group will receive the same grade. If you have special needs for tests, you should see me by the end of the second week of the semester so that appropriate arrangements can be made. The contribution of each to your course grade is:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td>60%</td>
</tr>
<tr>
<td>Final exam</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10% (lowest two dropped)</td>
</tr>
<tr>
<td>Problem sets</td>
<td>10%</td>
</tr>
</tbody>
</table>

Tentative schedule for tests, etc.

- 4 February: quiz # 1
- 11 February: quiz # 2
- 18 February: test # 1
- 25 February: quiz # 3
- 4 March: quiz # 4
- 20 March: quiz # 5
- 27 March: test # 2
- 3 April: quiz # 6
- 10 April: quiz # 7
- 17 April: quiz # 8
- 24 April: test #3
- 1 May: quiz #9
- To be determined by University: Final Exam
**Grading scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
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</thead>
<tbody>
<tr>
<td>4.00</td>
<td>95-100</td>
</tr>
<tr>
<td>3.75</td>
<td>91-94</td>
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<tr>
<td>3.50</td>
<td>88-90</td>
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<tr>
<td>3.25</td>
<td>85-87</td>
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<tr>
<td>3.00</td>
<td>82-84</td>
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<tr>
<td>2.75</td>
<td>79-81</td>
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<tr>
<td>2.50</td>
<td>76-78</td>
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<td>2.25</td>
<td>73-75</td>
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<tr>
<td>2.00</td>
<td>70-72</td>
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<tr>
<td>1.75</td>
<td>67-69</td>
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<tr>
<td>1.50</td>
<td>64-66</td>
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<tr>
<td>1.25</td>
<td>61-63</td>
</tr>
<tr>
<td>1.00</td>
<td>51-60</td>
</tr>
</tbody>
</table>

**Course outline:**

1. Dealing with data  
   ASW chapters 1 and 2

2. Descriptive statistics  
   ASW chapter 3

3. Introduction to probability  
   ASW chapter 4

4. Probability distributions  
   ASW chapters 5, 6, and 7

5. Interval estimation  
   ASW chapter 8

6. Hypothesis testing  
   ASW chapter 9

7. Inferences on population means  
   ASW chapter 10

8. Simple regression  
   ASW chapter 12

9. Multiple regression  
   ASW chapter 13
Academic Integrity: A major commitment of the University is “to the intellectual development of the student” (St. Lawrence University Aims and Objectives) which can be achieved only by strict adherence to standards of honesty. At St. Lawrence, all members of the community have a responsibility to see that these standards are maintained. Consequently, St. Lawrence University students will not engage in acts of academic dishonesty. The University Policy:

1. It is assumed that all work is done by the student unless the instructor/mentor/employer gives specific permission for collaboration.

2. Cheating on examinations and tests consists of knowingly giving or using or attempting to use unauthorized assistance during examinations or tests.

3. Dishonesty in work outside of examinations and tests consists of handing in or presenting as original work which is not original, where originality is required.

The following constitute examples of academic dishonesty:

a) Plagiarism: Presenting as one’s own work the work of another person--words, ideas, data, evidence, thoughts, information, organizing principles, or style of presentation--without proper attribution. Plagiarism includes paraphrasing or summarizing without acknowledgment by quotation marks, footnotes, endnotes, or other indices of reference (cf. Joseph F. Trimmer, A Guide to MLA Documentation).

b) Handing in or presenting false reports on any experiment.

c) Handing in or presenting a book report on a book one has not read.

d) Falsification of records.

e) Supplying information to another student knowing that such information will be used in a dishonest way.

f) Submission of or presentation of work (papers, journal abstracts, oral presentations, etc.) which has received credit in a previous course to satisfy the requirement(s) of a second course without the knowledge and permission of the instructor/supervisor/mentor of the second course.

g) Knowingly making false statements in support of requests for special consideration or special timing in the fulfillment of course requirements.

More information on academic integrity, including the Academic Honor Council’s Constitution, can be found at: http://www.stlawu.edu/acadaffairs/academic_honor_policy.pdf. Moreover, all students should have a copy of their signed and pledged agreement to this code from their first semester.

For information about academic integrity or the Academic Honor Council issues, contact the Dean’s Office at x5993.