**Psy 603: Quantitative Methods in Psychology I**  
10:00-11:15 M W  
Fall 2009  
Peabody 202

**Instructor:** Nick Prins, Ph.D.  
**Phone:** 915-1207  
**Email:** nprins@olemiss.edu

**Office Hours:** MW: 1:00-2:00  
F: 10:00-11:00  
or by appointment  
301 A Peabody

**Course Description:** Social scientists (and others) conduct experiments to test their theories. Typically, these experiments result in hundreds or thousands of measured values (e.g., reaction times, measures of attitude, or whatever). This course describes the techniques to summarize large numbers of measurements as well as the techniques that are used to decide whether results from the sample (the limited number of participants in the study) can be reasonably generalized to the entire population of interest (e.g., humanity). The course aims at providing a solid understanding of the basic concepts, enabling the student to tailor their statistical competence independently from the course to include those statistical procedures needed for their specific research needs. At course completion, students should have an understanding of the basic statistical procedures used in the social sciences, and also be able to perform these procedures by way of statistical software.

**Reading:** Howell, D.C. Statistical Methods for Psychology (6th Edition, older/newer editions are all fine too) Thomson Wadsworth. ISBN-10: 9780495012870. We will also be using the statistical software package SPSS (available on computers in 110 Peabody and elsewhere on campus).

**Attendance**  
Attendance is required.

**Evaluation**  
There will be homeworks and four Exams. Homework average and exams each count for 20% of your grade. Late homeworks will not be accepted under any condition. There will, however, be one drop-grade (i.o.w. you get to miss one homework, for whatever reason: no questions asked). In order to drop two or more homework grades, I will need to see a documented valid excuse, describing circumstances that could not have been anticipated, for each.

**Grading**  
The final grade will be assigned using the following scale: A ≥ 90 points, B ≥ 80 points, C ≥ 70 points, D ≥ 60 points, F < 60 points.

**Disability Policy**  
It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Contact will then be made by that office through you to me. I will then be happy to work with you so that a reasonable accommodation can be made.

**Blackboard**  
Course materials and grades will be posted on Blackboard as they become available. Course documents (e.g., syllabus) will also be available from blackboard. These documents will be posted in pdf format. You will need Adobe Reader to view these files. Adobe Reader is freely available here: [http://www.adobe.com/products/acrobat/readstep2.html](http://www.adobe.com/products/acrobat/readstep2.html)
Schedule:

This is a rough outline. Dates and topics may change over the duration of the semester.

<table>
<thead>
<tr>
<th>DATES</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 24- Sep 9</td>
<td>Ch. 1 Basic Concepts</td>
</tr>
<tr>
<td></td>
<td>Ch. 2 Describing and Exploring Data</td>
</tr>
<tr>
<td></td>
<td>Ch. 3 The Normal Distribution</td>
</tr>
<tr>
<td></td>
<td>Ch. 4 Sampling Distributions &amp; Hypothesis Testing</td>
</tr>
</tbody>
</table>

Mon  Sep 14   EXAM 1

Sep 16-Oct 5  | Ch. 5 Basic Concepts of Probability       |
|             | Ch. 6 Categorical Data & Chi-Square       |
|             | Ch. 7 Hypothesis Tests Applied to Means   |
|             | Ch. 8 Power                                |

Wed  Oct 7    EXAM 2

Oct 12-Oct 28 | Ch. 9 Correlation and Regression           |
|             | Ch. 11 Simple Analysis of Variance        |
|             | Ch. 12 Multiple Comparisons Among Treatment Means |

Mon  Nov 2    EXAM 3

Nov 4-Dec 2   | Ch. 13 Factorial Analysis of Variance      |
|             | Ch. 14 Repeated-Measures Designs           |

Fri Dec 11    EXAM 4  8 AM