All students enrolled in a Mathematics course during the Spring 2000 semester will be given a survey. This survey will be collected and analyzed by our class.

**Group Composition**

The class will be divided into groups of 4-6 students each. This project may be ran in conjunction with the other statistics class. The groups may be the same as those formed for the grocery project or they may a different group.

**Communication**

Since this project will require out-side of class communication between 4-6 people and it can be difficulty to get 4-6 people together at a common time, a conferencing system has been set up using [WebBoard](http://webboard.richland.rry.us/~james/). The system is available on the Internet at [http://webboard.richland.cc.il.us/~james/](http://webboard.richland.cc.il.us/~james/).

WebBoard allows students / faculty to communicate by leaving and responding to messages. There is no requirement that people be online at the same time to use the system. You can leave a message and the other person can respond when they get the chance.

WebBoard can also be configured to send the messages to your email account so that you do not have to log into the system to check messages. Responses can also be sent by email. It also allows newsgroup reading.

WebBoard also allows interactive chat if more than one user is online at the same time. WebBoard is also available from any of the computer labs on campus, including the one in S137.

**Assignments**

Periodically, information will be turned in for a grade. All assignments submitted for a grade should have the name of the group and the name of all the students in the group at the top of the document. The group will be named according to the section of the survey that they are analyzing. For example, “Demographics”, “Placement”, “Developmental Math”, etc.

All information submitted to the instructor is to be printed.

In addition, certain assignments will be posted to WebBoard so that the results are available to the class.

Parts of the project will be due at different times. Due dates and point values will be posted.

**Phase 1 - Planning (Class)**

Collect a list of all mathematics courses at Richland this semester. Use cluster sampling to randomly select 20 sections. Give a list of the sections to the instructor who will duplicate the survey and pass them out to the instructor of those courses to give to the students.

**Phase 2 - Data Collection**

The survey will be passed out and collected by the instructor of the 20 sections. The Math 113 class does not need to do anything with this phase of the project.
Phase 3 - Data Entry (Individual)
The returned surveys will be split equally among the students and each student will then enter the data from their surveys into SPSS. Save your data and it will be combined with the rest of the class data into one master data set. We will use that master data set for all analysis.

Phase 4 - Descriptive Statistics (Group)
Describe what your group considers to be the important aspects of the survey.
For qualitative or categorical data, this should include frequencies and percentages. For quantitative data, include counts, means, and standard deviations.

Phase 5 - Inferential Statistics (Group)
Look for meaningful differences in categories. Go outside your section into the other sections for classification variables.
Examples of some things you could ask.
- Do people that like mathematics do better than those who do not?
- Do people that work full-time have a higher / lower completion rate than those who work part-time or not at all.
- Does age affect completion?
- What are good predictors of proper placement?

Phase 6 - Survey Refinement (Group)
What would you change in the survey the next time this is done?
Were there choices to questions in your section that did not get enough responses to merit a separate choice? Were there choices that should have been included, but were not?
When you were doing your analysis, did questions arise that could not be answered because the data was not available? What data did you need but did not have? What questions would you ask to get the data?
Were there any additional questions that you would like to see asked? Were there questions that were asked that do not need to be asked?

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/20</td>
<td>Determine clusters</td>
</tr>
<tr>
<td>2/4</td>
<td>Surveys returned by instructors and given to students.</td>
</tr>
<tr>
<td>2/15</td>
<td>Data entry done</td>
</tr>
<tr>
<td>3/7</td>
<td>Descriptive Statistics Due</td>
</tr>
<tr>
<td>4/18</td>
<td>Inferential Statistics Due</td>
</tr>
<tr>
<td>5/2</td>
<td>Survey Refinements Due</td>
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</tbody>
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