HURE 6500 Waiver Examination Information

- Waiver exams must be taken within the first year of starting GSM classes
- The waiver exam may be taken only once per subject
- The cost of the waiver exam is $100 payable at least two weeks prior to the exam date.
- Arrangements (waiver exam date) are made with the faculty proctor for the subject area.
- Please forward the check to Ms. Cheryl Nelson in the Graduate School of Management (GSM). Upon receipt of the fee, the GSM will notify the faculty member and provide written documentation authorizing the waiver exam.

The fee is payable to the Graduate School of Management and may be mailed to:

Marquette University Graduate School of Management
David Straz Hall, Executive Center, Suite 275
PO Box 1881
Milwaukee, WI 53021-1881

The exam:
The examination consists of 31 multiple choice and true/false questions and 18 questions where you must show your work with the solution. The multiple choice and true/false questions are each worth one point. The other 18 questions range from 2-10 points per problem. You will have two hours and thirty minutes to complete the exam. The test is open book. You will need to bring a Statistics text with you, as you will probably need to use some of the tables in the text. A grade of 80 or above is needed to be waived from HURE 6500 (Statistical Methods and Research Design for Human Resource Management). Note that though this is an open book exam, you must be comfortable with the material before you start the exam. If you are not comfortable with the material before the exam, you will not finish the exam.

Scrap paper will be provided.

Topics Covered and Points per Topic:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>1</td>
</tr>
<tr>
<td>Descriptive Statistics: Numerical Methods</td>
<td>4</td>
</tr>
<tr>
<td>Probability</td>
<td>22</td>
</tr>
<tr>
<td>Sampling and Sampling Distributions</td>
<td>9</td>
</tr>
<tr>
<td>Hypothesis Testing and Confidence Intervals</td>
<td>25</td>
</tr>
<tr>
<td>Analysis of Variance</td>
<td>11</td>
</tr>
<tr>
<td>Regression and Correlation</td>
<td>24</td>
</tr>
<tr>
<td>Chi-Square Tests</td>
<td>4</td>
</tr>
</tbody>
</table>

For a further breakdown of the topics, please see the next page.

Calculator:

You will need a calculator for the examination. Your calculator should be able to do (at least) square roots. PDAs are not allowed (general rule: if text can be stored or if your calculator is a communications device, choose a different calculator).

If you have any questions about the exam, please ask Bob Collins (office: DS 228, phone: 414-288-3412, e-mail: robert.collins@marquette.edu).
Review:
Following are the topics covered on the exam:

**Data**
- Categorical vs. Quantitative

**Descriptive Statistics: Numerical Methods**
- Measures of Location
  - Mean
  - Median
  - Mode
- Percentiles
- Measures of Variability
  - Range
  - Variance
  - Standard Deviation
- Measures of Location and Detecting Outliers
  - z-score
- Measures of the shape of Distributions
  - Skewness

**Measures of Association**
- Covariance
- Correlation Coefficient

**Probability**
- Basic
- Conditional
- Mutually Exclusive
- Independent
- Discrete Probability Distributions
  - Expected Value
  - Variance
- Continuous Probability Distributions
  - Normal

**Sampling and Sampling Distributions**
- Inferential Statistics
- Sampling Distribution of the mean
- Sampling Distribution of the proportion

**Hypothesis Testing and Confidence Intervals**
- Means: One Population
- Two Populations
- Proportions: One Population
- Appropriate Sample Size
- p-value

**Analysis of Variance**
- Completely Randomized Designs
- Factorial Design
- Interpret SPSS output for Analysis of Variance

**Regression and Correlation**
- Correlation
  - Validity
  - Reliability
- Simple Linear Regression
  - Coefficient of Determination
  - Hypothesis Testing
- Multiple Regression
  - Adjusted Coefficient of Determination
  - Hypothesis Testing
  - Partial F-Test
  - Interpret SPSS output for Regression and Correlation

**Chi-Square Tests**
- Goodness of Fit
  - Test of Independence (Contingency Tables)

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Text:
I suggest that you use the text that you used during your undergraduate studies.
The text currently used in the HURE 6500 class is: **Mind on Statistics (Fourth Edition)**. Utts and Heckard, Brooks/Cole, 2012.

Updated: 7/2011