Experimental Design

Fall 2009 – Initial release of survey (25 questions / 30 mins)
Class sample size: ~350 students

Stage I: Question Analysis and Refinement

Fall 2010 – Survey Administration (16 questions / 30 mins)
Class sample size: ~500 students

Stage II: Question Analysis

Fall 2011 – Survey Administration (16 questions / 45 mins)
Class sample size: ~550 students

Stage III: Final Analysis

Question Analysis

1. Ignore questions that over 80% of students answered correctly. These are considered ineffective.
2. Create sets containing 7 effective questions.
3. Correlate set scores to overall course grades.
4. Ignore sets with a correlation of less than 0.4. These are considered ineffective.
5. Calculate the percentage of the effective sets in which each effective question appears.

Fall 2009 Question Analysis

Note: The red line indicates the percentage of students that answered the question correctly.

Fall 2010 Question Analysis

Final Analysis

ROC Curve Analysis was used to pick a survey score to decide which course, ENGR 101 or 151, would be most appropriate for a student to take.

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