

Problem Solving in Business & Engineering
Department of Decision Sciences
BS - Business and Engineering

ASSESSOR INSTRUCTIONS

The Business & Engineering (B&E) program has implemented a new learning goal for the 2010-2011 academic year. The learning goal is “Problem Solving in Business & Engineering”. The learning goal states that B & E students will “...demonstrate their ability to solve problems in both the business and engineering disciplines.” Thank you for agreeing to assist in the assessment of learning outcomes (listed below) for this learning goal.

Measurement: Student work from Mr. Neil Desnoyers’ fall 10-11 STAT 205 class is being used for this assessment. The student work in question is a problem set students were required to complete (original problem set instructions are attached). Since the assessed work involved solving two problems from the course textbook (Devore 7e) the text of the two problems is also attached for your reference.

Action Required: Please score the provided student work based on the metrics in the table in the “Learning Outcomes” section below. For each category, simply indicate the number of students whose work fell into each of the three levels (Exemplary, Acceptable and Unacceptable). You may use tick marks in the appropriate boxes.

Learning Outcomes

- I. Description & Analysis of Problem-Solving Situation
- II. Demonstrated ability to solve problems in business
- III. Demonstrated ability to solve problems in engineering
- IV. Demonstrated ability to provide a business analysis of an engineering recommendation
- V. Demonstrated ability to provide an engineering interpretation of a business recommendation

CATEGORY	3 - Exemplary	2 - Acceptable	1 - Unacceptable
I. Description & Analysis of Problem-Solving Situation.	Description & Analysis demonstrate a clear understanding of the problem(s) to be solved and the benefits of solving the problem(s).	Description & Analysis demonstrate a substantial understanding of the problem(s) to be solved and the benefits of solving the problem(s).	Description & Analysis demonstrate a very limited understanding of the problem(s) to be solved and the benefits of solving the problem(s).
Number of students at each level			

II. Demonstrated ability to solve problems in engineering	The appropriate solution method is selected and applied correctly for all problems.	The appropriate solution method is selected and applied with at most minor errors for all problems.	The appropriate solution method is not selected OR is applied incorrectly.
Number of students at each level			
III. Demonstrated ability to solve problems in business	The appropriate solution method is selected and applied correctly for all problems.	The appropriate solution method is selected and applied with at most minor errors for all problems.	The appropriate solution method is not selected OR is applied incorrectly
Number of students at each level			
IV. Demonstrated ability to provide a business analysis of an engineering recommendation	A thorough business analysis of the engineering recommendation is provided	A satisfactory business analysis of the engineering recommendation is provided	Business analysis of the engineering recommendation is not appropriate.
Number of students at each level			
V. Demonstrated ability to provide an engineering interpretation of a business recommendation	A thorough engineering interpretation of the business recommendation is provided	A satisfactory engineering interpretation of the business recommendation is provided	Engineering interpretation of the business recommendation is not appropriate.
Number of students at each level			