

**Applied Regression Writing Component**  
**Assignment 2**  
**Project Proposal**  
**STAT 1223 Dr. Bodenschatz Spring 2019**

**Assignment 2 Due in class on Feb 27. 30 Points Possible.**

Develop an idea for a statistical study or experiment using data you collect or acquire from a reputable source. The statistical analysis of your data might involve multiple regression, but this is not a hard requirement. Write a proposal for your project.

Your proposal should include:

- A statement of the purpose of the study.
  - Why are you undertaking the study?
  - Why will the results be interesting/important?
  - What action might be taken as a result?
- A discussion of the data of interest.
  - What individuals will the data describe?
  - How many variables will the data contain?
  - What are the definitions and units of measurement of the variables?
  - What types of variables will you employ: categorical, quantitative, etc.?
- An analysis of how you will obtain the data.
  - If you will be collecting the data yourself, make sure your population of interest is well defined and that your sampling method will allow analysis (i.e. that you have a random sample from the population).
  - If you will be using existing data, make sure you can verify that it was collected in such a way that it can be used for a statistical study.
  - How many individuals will appear in the data? How did you determine this sample size? What issues did you consider?
- A discussion of the statistical methods you will employ to analyze the data and to answer your questions of interest.
  - What kinds of exploratory data analysis will you undertake?
  - What quantities do you hope to estimate?
  - What hypotheses might you test?
  - What relationships do you hope to express/test/explore?
- A statement of the conclusions you hope to make.
- A timeline for your project. The final report will be due on April 10.

Your proposal should:

- Be typed and double spaced.
- Be grammatically correct (check grammar, spelling, punctuation, etc.).
- Contain any necessary references.

Attach this sheet (with the reverse side on top) to the front of your assignment.

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**Name** \_\_\_\_\_

**Grading Criteria:**

<b>Criterion</b>	<b>Points Possible</b>	<b>Points Earned</b>
Includes an informative statement of purpose	4	
Discusses data of interest	4	
Thoroughly explains how data will be collected and how the integrity of the data will be verified	4	
Examines statistical methods to be utilized	4	
Discusses expected conclusions	3	
Overall flow, word choice, and writing style	4	
Grammatically correct – spelling, punctuation, etc.	2	
Follows format (typed, double-spaced, references, includes timeline, etc.)	2	
Overall impression and quality	3	
<b>Total Score</b>	<b>30</b>	