

Project Part II Instructions for KIN 304W Term Project, Spring 2013

Project Part II Overview

Working independently, each student will be required to analyze a set of existing data (provided during Friday lab in Week 5) to test a specific hypothesis and then write up the project in the form of a scientific journal article. Project Part II (journal article) will be due for 1st submission **at Tuesday lecture in Week 12 (March 26, 2013)**. This will be marked and edited and returned to the student at Tuesday lecture in Week 14 (April 9, 2013). The **final revised project will be due at the final exam (Thursday, April 18)**. Hand-in the marked 1st submission of Project Part II with the final submission.

Preparation of Projects

Guidelines for the preparation of articles have been adapted from the Journals of Gerontology: Medical Sciences “Instructions to Authors.”

Each student’s project should contain the following sections, in order:

- Title page
- Abstract
- Introduction
- Methods
- Results
- Discussion
- References
- Table
- Figure

Page format: Use 12-point font size, double-spaced text, and leave right margins unjustified (ragged). Start each of the following sections on a new page: Title Page, Abstract, Introduction, References, Table, and Figure. Number all pages consecutively, beginning with the Abstract as page 1 (the Title Page does not receive a page number). You may print single-sided or double-sided.

Title page: On separate lines include the assignment title “Project Part II”; a descriptive title (e.g., Effects of A on B); your full name; student number; course number and name; semester (i.e., Spring 2013); university, date of submission, and a word count for the text (inclusive of introduction, methods, results, discussion).

Abstract: An abstract of not more than 250 words should be typed, double spaced, on a separate page. The abstract must contain the following headers: Background, Methods, Results, and Conclusions.

Under the heading Background, the abstract should begin with a sentence or two explaining the importance and relevance of the study question as well as the precise objective or research question addressed by the study (e.g., “The purpose of this study was to determine ...”). Under the heading Methods, describe the basic design of the study and measurements, including a brief description of the subjects. Under the heading Results, state the main results of the statistical analysis, including *p* values for individual

results. Under the heading Conclusions, provide the main conclusions of the study that are directly supported by the results, along with one or more implications for clinical practice or future research. Avoid speculation and overgeneralization.

Text: The text includes the Introduction, Methods, Results, and Discussion. The word count for the text should be approximately 1600 words.

Introduction. The Introduction should present what is currently known about the problem with citations to relevant primary research literature, what is unknown (i.e., the critical gap in knowledge that the present study addresses), and the precise purpose of the study in the form of a hypothesis, research question(s), or research objective(s). The Introduction also needs to establish the importance of the problem/research topic. This is often achieved by outlining the health implications of the problem. The introduction should be 1 to 1.5 double-spaced pages.

Methods. The Methods section should describe the experiments you did to answer the research question posed in the Introduction. This includes details about how the study population was recruited, the measurements that were completed, and the statistical analysis that was completed. ***Dr. Mackey will provide all of the necessary text about the study population and the measurements.*** You are responsible for writing the statistical analysis section, which should include: how the data were summarized (e.g., means, %) and how you reported variability (e.g., SD, SEM); which statistical tests you used and the particular questions they address (e.g., We used independent t tests to compare waist to hip ratio and sum of five skinfolds between athletes and non-athletes.) State the statistical software package and version that you used.

Results. For Project Part II, the Results section should be identical to what you handed in for Project Part I. That is, you do not need to submit a revised Results section. For the final project submission at the final exam, all parts of your project, including the Results section, should be revised based on feedback you've received from the Writer Marker on your earlier submissions.

Discussion. The main purpose of the Discussion is to answer the research question(s) posed in the Introduction. The Discussion should also explain how the results support the answers and how the answers fit in with existing knowledge on the topic. The Discussion may also include indications of the newness and importance of the work, explanations of discrepancies with others' results, explanations of the limitations of the study, and indications of any implications for clinical practice or future research. The Discussion section of your project should be approximately 2.0-2.5 double-spaced pages.

Table 1. For Project Part II, Table 1 should be identical to what you handed in for Project Part I. That is, you do not need to submit a revised Table 1. For the final project submission at the final exam, all parts of your project, including Table 1, should be revised based on feedback you've received from the Writer Marker on your earlier submissions.

Figure 1. For Project Part II, Figure 1 should be identical to what you handed in for Project Part I. That is, you do not need to submit a revised Figure 1. For the final project submission at the final exam, all parts of your project, including Figure 1, should be

revised based on feedback you've received from the Writer Marker on your earlier submissions.

Abbreviations: Where abbreviations are used, define them the first time they appear (e.g., body mass index (BMI)). As a general rule, do not use abbreviations for any word/phrase unless that word/phrase has been used 3 or more times in text.

Text References: Number references in the text in the order in which they appear. Use arabic numbers in parentheses, not superscripts (e.g., Previous research has shown that A leads to B (1)).

Reference List: Type references double-spaced. List references by number in the order in which they were first cited in the text. It is recommended to use RefWorks to create your reference list. Include between 15 and 20 references. Limit references to Journal Articles; do not reference books or parts of books. The reference style should conform to that used by the Journals of Gerontology Medical Sciences, which is the same as that given in the AMA Manual of Style. For journal articles, use the journal title abbreviation as given in PubMed and list all authors when six or fewer; when seven or more, list only the first three and add et al. An example is shown below.

Journal article with one author

Milunsky A. Prenatal detection of neural tube defects, VI: experience with 20,000 pregnancies. *JAMA*. 1980;244:2731–2735.

Journal article with four authors

St-Onge M, Mignault D, Allison DB, Rabasa-Lhoret R. Evaluation of a portable device to measure daily energy expenditure in free-living adults. *Am J Clin Nutr*. 2007;85:742–749.

Journal article with seven or more authors

Manini TM, Everhart JE, Patel KV, et al. Activity energy expenditure and mobility limitation in older adults: differential associations by sex. *Am J Epidemiol*. 2009;169:1507–1516.

Deliverables

You must submit a hard copy of Project Part II at Tuesday lecture in Week 12 (**March 26, 2013**). You must submit a hard copy of your final revised project at the beginning of the final exam (**Thursday, April 18**). Hand-in the marked Project I and Project II with your final project submission.

Grading Scheme

Project Part II is **worth 30% of your overall mark** in the course and will be graded out of 80, broken down as follows:

Project Part II Grading Scheme:

Title Page	5 marks
Abstract	10 marks
Introduction	20 marks
Methods (statistical analysis only)	5 marks
Results (include with Project Part II submission, but it will not be marked until the final submission)	---
Discussion	20 marks
References	10 marks
Table 1 (include with Project Part II submission, but it will not be marked until the final submission)	---
Figure 1 (include with Project Part II submission, but it will not be marked until the final submission)	---
Overall (presentation, formatting, components in correct sequence, etc.)	10 marks

The final revised submission of the project at the final exam is worth 10% of your overall mark in the course and will be graded out of 20. Marks will assigned based on the adequacy of revisions to comments you received on Project Part I and Project Part II.

Resources

The following resources are available to help you with your projects:

General information about writing all the components of scientific journal articles:

<http://abacus.bates.edu/~ganderso/biology/resources/writing/HTWtoc.html>

SFU Student Learning Commons offers drop-in and booked appointments for students to get help with writing. Their website also offers links to resources on academic writing.

<http://learningcommons.sfu.ca/>

You can see Dr. Mackey during her office hours, Fridays from 9:30 to 10:00 am.

You can see Perveen Biln during her office hours (see course website).