**Final Project abstract and presentation/paper instructions**

**Abstract.** Prepare a 250-word abstract of your project. Include the following sections: 1) Background on topic and a sentence on the objective(s), 2) Methods, 3) Results, and 4) Conclusions. **Submit this on Canvas by April 15.** Kim Johnson and/or Kyle Pitzer will provide feedback on the abstract to incorporate into the final abstract that is due on 4/29.

**Final Project options**: A) Presentation and B) Paper

* **The due date has been changed to 4/29**. However, Zoom presentation slots will be available 4/22 (in addition to 4/29) for those who want to complete their presentations on this day.

**Option A. Presentation**. Prepare a 10-15 min presentation using Power Point or another software. Include the following in your presentation:

1. **Title slide**
   1. Title of project
   2. Group members
2. **Bullet point overview slide of what you will cover in your presentation**
3. **Background on topic**
4. **Objectives of analysis** (what question(s) will you answer with your analysis)
5. **Methods** (bullet point outline for each is fine)
   1. Study population
   2. Inclusion/exclusion criteria
   3. Variables used and brief descriptions
   4. Statistical analysis methods
   5. Any additional information you feel is important to understanding your project
6. **Results**
   1. Table 1 that provides numbers and frequencies for demographic characteristics of your study population (the subjects included in your analysis)
   2. Include a DAG that shows your conceptual model as Figure 1
   3. Table(s) plus any figures for descriptive data and modeling results
7. **Discussion**
   1. Brief summary of what you found
   2. Any discussion of whether your results are consistent with what others have found
   3. Strengths and limitations of the analysis
   4. Conclusions/future directions)
8. **Any acknowledgements (optional)**

Reserve a Zoom meeting slot with your instructors by searching appointments for our class on Canvas. Following your presentation, there will be a 5-10 min question and answer period from the instructors and any other students that attend your presentation.

**Option B. Written paper.** Prepare an 8-10 page double spaced paper that includes the following sections:

1. **Title page** (not included in page count)
   1. Title of project
   2. Group members
2. **Introduction** (1 page): Include descriptions of the following:
   1. Background on the problem
   2. Objectives of the analysis (what question(s) will you answer with your analysis)
3. **Methods** (2-3 pages). Include descriptions the following:
   1. Study population
   2. Inclusion/exclusion criteria
   3. Variables used and brief descriptions
   4. Statistical analysis methods
   5. Any additional information you feel is important to understanding your project
4. **Results** (4-5 pages including tables and figures). Include the following:
   1. **Table 1** that gives the characteristics of your study population
   2. Include a DAG that shows your conceptual model as Figure 1
   3. Table(s) plus any figures for descriptive data and modeling results
   4. A description of the results. Separate paragraphs should be used for each table or figure
5. **Discussion (**1-2 pages**).** Include the following:
   1. Brief summary of what you found
   2. Any discussion of whether your results are consistent with what others have found
   3. Strengths and limitations of the analysis
   4. Conclusions/future directions

Grading of the final project, which is worth 30% of your final grade, will be based on completion of the sections listed in the syllabus:

1. **Concept proposal (5 points)**
2. **Abstract (5 points)**
3. **Code for project on github site (5 points)**
4. **Final project presentation OR paper (10 points)**
5. **Responses to reviewers (5 points).** Reviewers will be composed of students who attend the presentation and the instructors. Instructors will assemble 2-3 written comments for the student/team to respond to within one week of the final presentation.

Consideration will be given to following instructions and appropriate application of concepts learned in the course. Please do not hesitate to ask us for clarification or project-related guidance.