

## Last Class!

Thanks for a great semester. I have appreciated your participation and enthusiasm for the course; your contributions have made this class successful.

Remember that the goal of this course is to train you to collaborate effectively and responsibly with non-statisticians to answer their subject matter questions.

What are some pointers you remember from these topics that you found especially helpful and/or that you think will be useful to you in the future?

<http://users.stat.umn.edu/~rend0020/Teaching/STAT8801-2017Spring/>

### **Effective collaboration: in person**

*Dr. Derr videos, POWER process, consultation role-playing, presenting your analysis*

### **Effective collaboration: writing**

*Classes on writing process, revising writing, effect sizes and proportions, tables and graphics, also assignments and classes on writing a proposal and report*

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### **Using statistics to answer subject matter questions**

*case studies, including dogs with septic peritonitis, eagle wing flapping, Mpls storm damage, salt reduction, surround sound, and data science poster fair*

### **Responsible collaboration**

*General ethics, research ethics, human/animal research, plagiarism, authorship, intellectual property, conflicts of interest, openness and confidentiality, ethical decision-making, reproducible research.*

## HW 13: Class Reflection, due Wed May 10

Please write me a reflection on the following question and **send to me by email**. When read aloud, it should take 3–5 minutes. (That’s a page or two, with not too much spacing.)

**How has your ability to collaborate effectively and responsibly with non-statisticians to answer their subject matter questions improved as a result of this course?**

I suggest you choose a few topics or assignments that you found particularly interesting, and tell me what you learned about them. For inspiration, see your notes from today and the goal of this course below, as printed in the syllabus. Also see all past handouts on the course website, <http://users.stat.umn.edu/~rend0020/Teaching/STAT8801-2017Spring/>.

**ALSO:** I would like your permission to use your reflections in the future, anonymously and after removing any identifiable information. If you are so willing, please note that. Thanks!

Again, if you are unable to complete by this date, please email me. I have some flexibility; I just need everything in time to review it before grades are due.

### From the syllabus:

The goal of this course is to train students to collaborate effectively and responsibly with non-statisticians to answer their subject matter questions.

Breaking this down into pieces...

- their subject matter questions.
  - Identify subject matter questions and translate into statistical language.
  - Ask good questions and restate answers to ensure understanding.
  - Write the background, goals, and study design section of a proposal or report.
- to answer
  - Choose a statistical method that is appropriate for answering the client’s question.
  - Write a statistical analysis plan.
- with non-statisticians
  - Verbally explain statistical concepts.
  - Explain results in subject matter language appropriate for the client.
  - Write a statistical analysis report.
  - Design tables and plots that increase clarity and understanding.
  - Create effective slides and oral presentations.
- and responsibly
  - Understand and apply the principles of Responsible Conduct for Research.
  - Understand and apply ethical guidelines specific to statisticians.
- Collaborate effectively
  - Run an effective collaboration meeting.
  - Use video to improve meeting and collaboration skills.
  - Set expectations for a successful collaboration.
  - Write a proposal for statistical collaboration.
  - In all writing, use language that is appropriate for the client and techniques that increase clarity and understanding.

Name: \_\_\_\_\_

What did you learn in this course that you had forgotten about until today?

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[Optional] Any other comment about this course that you have (not anonymous)?  
Perhaps a favorite part, or a suggestion, or something else?

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