Instructor: Robert Bond, Derby Hall 3072, bond.136@osu.edu

Office Hours: Monday 1-3 and by appointment.

* I would like to acknowledge Andrew Hayes, whose assistance in developing this course was essential.

Course Description

This course is the first in a sequence of graduate methodology classes required of all students enrolled in the M.A. or Ph.D. program in communication. Students will acquire working familiarity with the basic principles and theory of descriptive and inferential statistics. Topics will include elementary sampling and issues in data collection, data description, association, probability, and fundamentals of hypothesis testing and inference. Students will gain experience practicing their learning through various assignments using SPSS, with an emphasis on writing the “code” or “syntax” rather than the use of the point-and-click interface.

Course Materials

- A USB “thumb drive”. Please bring this to class every day.
- Additional, supplementary readings and PDFs distributed by CARMEN, as needed.
- SPSS for Windows or Mac.
- A calculator with a square root function, for occasional hand computations.

Evaluation

*Midterm Exam (25%)*

There will be a two-part midterm examination on October 28 and October 30 that requires you to demonstrate that you are comfortable with the methods and concepts outlined in the course thus far. The midterm will be open notes and open book, but should not be approached casually because of this. This exam will be given only once. No makeup exam will be provided if you miss it, and it will not be given early to accommodate your schedule.

*Final Exam (25%)*

You will be given a take home final exam on the last day of class that is due no later than 10AM on Monday, December 15. A dataset will be distributed to you and your job will be to read the data,
do any needed data manipulation, conduct several analyses, and interpret and describe the results. You may turn in the exam early if desired.

**Take-home assignments (50%)**

At several points during the semester you will be given a homework assignment to complete. The due date of each assignment will be announced when the assignment is distributed. **You may NOT work with other students when working through the assignments, and you must submit your own independently written answers for each problem.** It is a violation of the Code of Student Conduct to prepare your written answers together and/or submit answers that are in effect copies of each other, either in whole or in part. It is a violation of course policies and the OSU code of Student Conduct to exchange answers, electronically or otherwise, or to collaborate in any way on these assignments. Violators of this policy will be sent to the Committee on Academic Misconduct in accordance with university policy.

For some questions, there will simply be a right or wrong answer. For others, partial credit may be earned by showing your work and the logic you used to arrive at the answer you did. Writing quality will matter when I grade your assignments. Be specific, precise, attentive to detail, and careful in how you phrase your answers, as you will be graded based on your actual answer (what is on the page), not what you intended to say or said awkwardly. Do not wait until the last minute to start the assignments, as procrastination will show in the quality of your work. Use Word or another word processing program you are comfortable with. Use the symbol font for Greek symbols when needed, and learn to use Microsoft’s Equation editor or some other mathematics system. Be careful in your formatting or mathematical equations, and be aware of order of operations rules. Be proud of what you submit.

You are expected to turn in a hard copy of your assignment with all sheets stapled together, as well as upload an electronic copy to a CARMEN drop box labeled for that assignment. An assignment is determined to be late if the **hard copy** is not delivered to me by the date the assignment is due.

The answers for each question will be provided soon after the assignment is due. It is up to you to check your responses with the official answer sheet. If you do not understand any inconsistencies between the official answers and your own, you may contact me for assistance. Frequently, we will discuss the assignments in class after the due date has passed and everyone has turned in their assignment.

**Derivation of Final Grade**

My grading system is largely a percentage based system where 90%+ = A, 80% - 90%+ = B, 70% - 80%+ = C, 60% - 70%+ = D, less than 60% = E, and any + or − determinations are based on proximity of your grade to the cutoffs. I reserve the right to modify this system downward depending on the distribution of grades. In other words, if only one student exceeds the 90% threshold, but five hit 89%, I may choose to move the cutoff for an A to 89%. There is no curve for the class. You receive the grade you earn regardless of how the class as a whole performs.

**Course Policies and Miscellaneous**

**Late or Absent Assignments and Missed Exams**
Unless otherwise notified, assignments are due by the beginning of class on the date due. An assignment will not be accepted more than 24 hours after the due date. The only exceptions to these rules are totally unforeseen circumstances that are convincingly documented no later than 24 hours after the due date. If you are late turning in an assignment, you make everyone wait for the answers, as the assignment will not be discussed in class until everyone has turned in an assignment or the 24 hour period has passed.

Attendance

There is no formal attendance policy for this course. However, you should always attend class. If I believe attendance is slipping, I reserve the right to create an attendance policy. Not attending class will make learning the course material difficult. Some of the material that will appear on exams will only be presented during lecture, and many of the SPSS techniques to be discussed are not documented anywhere except in class.

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I will upload data files, powerpoint slides, PDFs of extra readings, and other course-relevant material to CARMEN. Learn to use CARMEN, as you will be asked to use it during class to retrieve materials used in class that day.

Academic Misconduct

All students at Ohio State University are bound by the Code of Student Conduct (see [http://studentaffairs.osu.edu/resource_csc.asp](http://studentaffairs.osu.edu/resource_csc.asp)). Violations of the Code in this class, especially pertaining to 3335–23–04 Section A on Academic Misconduct, will be aggressively prosecuted through the procedures the university has set up to deal with violations of the Code. If I believe you have violated the student Code, your case will be referred to the Committee on Academic Misconduct (see [http://oaa.osu.edu/coam/html](http://oaa.osu.edu/coam/html)). Not following the rules of the course as outlined in this syllabus or provided orally is considered a violation of the Code of Student Conduct. Penalties for academic misconduct from a graduate student are especially stiff and are almost certain to include failure in this course and suspension from the university, even for a first offense. Graduate students found in violation of the Code can expect revocation of funding from the School of Communication and, potentially, expulsion from the graduate program. Repeat offenses and especially egregious violations of the Code can result in expulsion from the University, even on the first offense. Make sure that you are familiar with the Code of Student Conduct, and familiarize yourself with “Ten Suggestions for Preserving Academic Integrity” available online at [http://oaa.osu.edu/coamtensuggestions.html](http://oaa.osu.edu/coamtensuggestions.html).

I expect students who believe a classmate has violated this policy to come forth to me so the alleged violation can be investigated and appropriate action can be taken if needed. If possible, your identity will be protected. **You can be found in violation of the Code of Student Conduct for assisting others to violate the Code, including by turning a blind eye when you see it happening.** “Cheating” in graduate school simply cannot and will not be tolerated, and the consequences for doing so are severe.

Note, however, that I understand there is value to study groups and assisting others to acquire the understanding of the material in this class. I encourage such study groups and will do what I can to help such groups flourish. But conversations must steer clear of questions related to graded assignments.
Tentative Nature of the Syllabus

This syllabus represents a contract in the works. Events that transpire over the semester may require me to modify the administration of this course and therefore the syllabus. In the event I need to modify the syllabus, I will announce the modification in class and on CARMEN. Ultimately, it is your responsibility to keep up with any such modifications and be aware of current policies, deadlines, etc.

Students with Special Needs

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; http://www.ods.ohio-state.edu/.

Mathematics Anxiety

Often one of the students greatest barriers to mastering material in methodology courses is fear of mathematics. Many students lock up with anxiety when they are asked to do any computation and this anxiety typically interferes with the ultimate goal of conceptual understanding. We will attempt to work on making mathematics comfortable for you throughout the semester. In this class most of the computations will be done by computer, although during lecture some basic computations cannot be avoided. You need not understand the mathematics of the formula so much as you need to understand how they are conceptually used. To be sure, you need to be comfortable with basic mathematical operations. This is graduate school, and you have chosen to study the scientific discipline of communication (or a related social science). You will have to think analytically and quantitatively throughout your days as a graduate student here. You will be challenged in this course, but there is no reason why everyone cant do well. The best thing that you can do to enhance your likelihood of success is to approach the course with enthusiasm and a positive attitude toward learning this essential part of the your new academic profession.

With these words of encouragement, at the same time remember that this is a graduate-level course. Although this is an introductory course, it is still intended to be challenging. I expect you to work hard, to prepare for class, and to do what you need to do to learn the material, both in and out of class. You will not succeed if you dont dedicate time and energy to reading and contemplating the material. You will probably find yourself working harder during your first year of graduate school at Ohio State than you have ever worked before.

SPSS

SPSS is a statistical analysis and data manipulation package widely used throughout the scientific community. It is only one of many statistical software programs you should become familiar with during your days in graduate school (others include, for example, SAS, Stata, Mplus, R). However, because it is the one program all faculty and graduate students in this program are familiar with, we will emphasize it over others.

SPSS is available on all graduate student office computers in the School of Communication in
Derby Hall as well as throughout public computing labs operated by OSUs Office of Information Technology. It also can be licensed for use on your personal machine by acquiring a copy and installation codes through the OSU Office of Information Technology. For most students in this class, there is no charge for the license. SPSS can be downloaded and installed from OSU, but it will not work without first acquiring the license codes. For details, see

https://ocio.osu.edu/software/directory/slwin/#spss

and

https://ocio.osu.edu/software/directory/slmac/#spss1103

for the Mac version.

You can also contact Peter Brandt, one of the School of Communications technical support personnel in Derby Hall, for assistance.

One of the reasons so many people prefer SPSS for data analysis is that it quite simple to use, with an intuitive graphical user interface that is easy to navigate. I believe it is essential for you to learn to use syntax to have a thriving academic career. Learning syntax can be intimidating (it was for me!), but once you begin to understand the language it becomes much easier. This only occurs with practice and repetition. Not knowing syntax will make working with data more difficult, will make your interactions with other faculty and graduate students more difficult, and will inhibit your ability to learn from one another. At first you will resist this because it will seem like a lot of unnecessary work. But here are some reasons to learn syntax:

- It provides a means of documenting, communicating, and sharing with others what you have done in an analysis (such as advisors and collaborators).
- It allows you to redo or modify an analysis without having to redo all the pointing-and-clicking.
- Some features of SPSS can only be accessed through the syntax system.
- In this class, I will require you to document your work with the syntax you generated in SPSS.
- Eventually, you will find it just as easy as pointing-and-clicking.
- What you learn will generalize. Many programs you will learn in graduate school are code- or syntax-driven. You need to learn to think like a programmer as well as a user.
- You will be at a disadvantage in more advanced courses if you can’t communicate with a statistical program in its own language.
- It is a marketable skill. It will give you a hiring edge if you decide to pursue a nonacademic career in industry, marketing, government, or any place where research is done.

SPSS syntax is a language, and like learning any language, learning to “speak” to SPSS takes patience and practice, but it gets easier as your mastery builds. It is a skill you will be constantly developing and honing. We will only begin to scratch the surface of the basics of SPSS programming in this class.

**Schedule of Lectures and Readings**

*Unit I: Basic Concepts and Vocabulary, Introduction to SPSS*

Hayes Chapters 1, 2, and 3

*Unit II: Data Description and Visualization*

Hayes Chapter 4
Unit III: Probability, Independence, and the Normal Distribution
   Hayes Chapter 5

Unit IV: Measurement and Estimation Theory
   Hayes Chapters 6 and 7

Unit V: Hypothesis Testing Concepts and Applications
   Hayes Chapters 8, 9, 10, and 11