

Applied Nonparametric Statistics
STA 4502
Fall 2024

Lecture: Tuesday, Thursday 11:35 – 12:50, OSB 327

Instructor: Eric Chicken

Office hours: Tuesday, 10:00 – 11:00, OSB 427

TA: Younghwan Cho, ybcho@fsu.edu

Office hours: Wednesday 1:00 – 2:00, Thursday 3:00 – 4:00, OSB 209G

Text: *Nonparametric Statistical Methods (3rd edition)*, Hollander, Wolfe and Me, 2014. The text is available at the link provided on the course canvas page.

Goal of Course: Students will be able to determine which nonparametric techniques are applicable in various situations; appreciate advantages of nonparametric statistics over parametric methods; become familiar with the use of software that applies nonparametric methods.

Course topics: The material covered may include, but is not limited to,

- Dichotomous data
- Location and scale, one- and two-sample
- Location, more than two samples, one and two factors
- Independence
- Regression and smoothing

Exams: There will be four equally weighted exams. Each exam counts as 20% of your grade.

Homework: There will be regular homework assignments. These assignments will reinforce lecture and prepare you for the exams. Homework is 20% of your grade.

Course Website: Canvas

Grades: Your course grade is based on the exams and homework. Your grades are maintained on Canvas by the TA. There will be no extra work available to enhance your grade, so put in the appropriate effort on the assigned homework.

Software: I will use R in the classroom. No familiarity with this package is necessary. Instructions on its use and how to obtain it will be provided in class and office hours.

Class Comportment: Attendance is not part of your grade, but students who attend class must be attentive and courteous to others in the classroom. Do not use cell phones or laptops during class. Do not read non-course material during class. Do not grade or work on homework during class. If you attend class, do not come late, leave early, or get up and exit class for a period of time. See me if there are specific issues with this.

Required Syllabus Statements

University Attendance Policy

Excused absences include documented illness, deaths in the family, and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid written excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of student's academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "... be honest and truthful and ... [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

Americans With Disabilities Act

Students with disabilities needing academic accommodation should: (1) register with and provide documentation to the Office of Accessibility Services; and (2) request a letter from the Office of Accessibility Services to be sent to the instructor indicating the need for accommodation and what type; and (3) meet (in person, via phone, email, skype, zoom, etc...) with each instructor to whom a letter of accommodation was sent to review approved accommodations. This syllabus and other class materials are available in an alternative format upon request. For the latest version of this statement and more information about services available to FSU students with disabilities, contact the:

Office of Accessibility Services

874 Traditions Way
108 Student Services Building
Florida State University Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
oas@fsu.edu
<https://dsst.fsu.edu/oas>

Academic Success

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Department of Student Support and Transitions to learn more.

Confidential campus resources

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

Victim Advocate Program

University Center A, Room 4100
(850) 644-7161, Available 24/7/365,
Office Hours: M-F 8-5
<https://dsst.fsu.edu/vap>

Counseling and Psychological Services (CAPS)

Florida State University's Counseling and Psychological Services (CAPS) primary mission is to address psychological needs and personal concerns, which may interfere with students' academic progress, social development, and emotional well-being. The following in-person and virtual (tele-mental health) are available to all enrolled students residing in the state of Florida:

1. Individual therapy
2. Group therapy
3. Crisis Intervention
4. Psychoeducational and outreach programming
5. After hours crisis-hotline
6. Access to community providers for specialized treatment

Call 850-644-TALK (8255) for more information on how to initiate services.

Services at UHS are available to all enrolled students residing In Florida

The mission of University Health Services (UHS) is to promote and improve the overall health and well-being of FSU students. UHS provides a coordinated continuum of care through prevention, intervention, and treatment. Services include general medical care, priority care, gynecological services, physicals, allergy injection clinic, immunizations, diagnostic imaging, physical therapy, and a medical response unit. The Center for Health Advocacy and Wellness (CHAW) assists students in their academic success through individual, group, and population-based health and wellness initiatives. Topics include wellness, alcohol and other drugs, hazing prevention, nutrition and body image, sexual health, and power based personal violence prevention. For more information, go to uhs.fsu.edu.

Suggested Syllabus Statements

Free Tutoring from FSU:

On-campus tutoring and writing assistance is available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options –see <http://ace.fsu.edu/tutoring> or contacttutor@fsu.edu. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

Statement on Public Health Protocols

Classes are expected to continue to meet in person this semester. If necessary, however, we will shift to remote instruction. There are currently no mask mandates in place at FSU, but it is likely that not everyone in the class will feel the same way about public health protocols. Some members of our community remain more at risk than others. We encourage everyone to be patient with one another while we navigate these ongoing challenges.

While the Covid and M-pox pandemics are receding, in order to continue meeting in person, we must all work together as a community to protect one another and to promote our shared health and safety in indoor spaces. FSU will continue to monitor all public health issues. Whatever happens, we are committed to helping you learn the material thoroughly and stay on schedule with your degree program. You can find up-to-date guidance at: <https://stayhealthy.fsu.edu>

Statement for Classes Subject to HB233 Recording

In this class, consistent with state law and university policy, students are permitted to make recordings of class lectures for personal use only. As noted, sharing, posting, or publishing classroom recordings may subject you to honor code violations and legal penalties associated with theft of intellectual property and violations of other state laws. Moreover, students and educators have expressed concern that recording classroom activities may negatively impact the learning experience for others, especially in classes that involve questions, discussion, or participation. To protect a learning environment in which everyone feels free to experiment with ideas, we ask you to refrain from recording in ways that could make others feel reluctant to ask questions, explore new ideas, or otherwise participate in class. Students must monitor their recordings so that they do not include participation by other students without permission. Students with disabilities will continue to have appropriate accommodations for recordings as established by the Office of Accessibility Services.

Statement for Courses Not Subject to HB233 Recording

In this class, consistent with state law and university policy, you may not make recordings of classroom activities without the permission of the instructor. This policy applies to both audio and video recordings.