

SOCI. 3303: SOCIAL DATA AND ANALYSIS

SPRING SEMESTER 2024

SYLLABUS ONLINE AT

<https://yangwang.hosted.uark.edu/soci3303/soci3303.htm>

INSTRUCTOR Dr. Song Yang
Office Hours: Wednesday 10:30 to 11:00 am or by Appt.
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LAB INSTRUCTOR Name: Jason Neeley
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Other Information such as office hours, locations, and phone number for Jason Neeley, check with Jason directly.

PLACE AND TIME FOR THE CLASS (All times are US Central)

This is a 100 percent in person class. We will be conducting class lecture Monday, Wednesday, and Friday from 9:40 to 10:30 am @ HOEC Classroom 0217 from January 16 (Tuesday) to May 2 (Thursday), 2024. Meanwhile, lecture notes, syllabus, and homework will be posted on the class webpage

<https://yangwang.hosted.uark.edu/soci3303/soci3303.htm>

You can also access to your grade through the UARK blackboard system,

The two labs also have their respective course room in their blackboard link. Labs will be held in person @ 205 Old Main.

Monday 12:55 pm – 1:45 pm

Thursday 12:30 pm – 1:20 pm

COURSE DESCRIPTION AND OBJECTIVES

Social statistics is an extremely important class for sociology majors and students from all other relevant disciplines for their future academic pursuits and social practices. In this class, we will start with some basic concepts such as statistics and variables, univariate analyses, and inferential statistics, move to bivariate analyses including regression and correlation, and finish with multivariate analyses including multiple regression and correlation. Upon finishing this course, students should be able to conduct statistical analysis in their substantive areas by applying appropriate statistic techniques.

REQUIRED TEXTBOOK

Frankfort-Nachmias, Chava and Anna Leon-Guerrero. 2020. *Social Statistics for a Diverse Society 9th edition* SAGE Publications, ISBN-10: 1544339739; ISBN-13: 978-1544339733

CALCULATOR

You need a calculator for this class. A **scientific** calculator with functions such as ln, log, exp, power, sin, and cos is perfectly sufficient for this class. An example of this type is a Texas Instrumental Scientific Calculator that costs you around \$20.00 at Best Buy or Wal-Mart. Just for this class, a super-power hand calculator with fancy features such as graphing, normally costs you more than \$50.00, is definitely overkill!

GRADING

The class contains 3 tests and attendance credit. The following table shows the score distribution.

Test 1	25%
Test 2	25%
Test 3	40%
<u>Attendance</u>	<u>10%</u>
Total	100 %

The following chart converts raw scores to letter grade

A :	90% - 100%
B :	80% - 89%
C :	70% - 79%
D :	60% - 69%
F* :	Below 60%

The grading will be based on absolute scale rather than a curve. Regular and active participation is the key to the success of the class. Notice that we do not have plus or minus signs in the grading system. The decimal values will be rounded off according to the 4/5 rule. For example, 90.5 will be considered as 91, whereas 90.4 will be considered as 90. The lab instructor will independently manage his own grades. Therefore, it is quite likely that you receive different grades between the lecture and the lab.

* To receive an F for this course, you not only need to be at the bottom 10% of the class grade, but also need to receive total raw score less than 60 out of 100. If your score fulfills either conditions but not both, your grade will be upgraded to D.

POLICIES

Incomplete will NOT be granted except for prior agreement with the instructor for some extreme situations.

Late Assignment will NOT be accepted except for prior consent from the instructors for some extreme cases.

Attendance is extremely crucial for this course. I will be awarding you 10 points (10% of your total grade) for your participation in an individual meeting between you and me. I will be distributing a meeting schedule within three weeks after the semester starts.

However, I shall remind you that Good Classroom Conduct is indispensable to your completion of this course. Disruptive behaviors, such as constant interruptions that interfere with classroom lecturing or presentations made by the instructor or other students, confrontational behaviors toward the instructor should be avoided by all means. I will be sending out warning note to those students exhibiting disruptive behaviors, inviting them for a personal meeting between me and the students for a solution to their disruptive behaviors. If the students refuse to participate in the meeting or after the meeting the behaviors are not corrected immediately, I will be deducting 10 points from their total grade and produce written document for such decision. The 10-point deduction could be exercised multiple times for those who repeatedly commit disruptive behaviors.

Academic Integrity is essential to completing your courses. Violations carry severe consequences; please consult the University of Arkansas webpage for the details (<http://provost.uark.edu/245.php>)

Exam Makeup will NOT be granted unless with prior consent from the instructor for some very rare situations. Students missing the test and are given one opportunity to make up for the test need to take the test ASAP. Maximumly, students have two weeks after the test date to make-up for the test. If student fails to show up for the makeup session, or the two-week grace time after the test expires, the test grade for the student will be entered as 0.

Email is the best way to contact me. I check my email many times a day, and normally respond your email within a couple of days.

Students with CEA request must request a meeting with me. The meeting is to discuss how to accommodate your needs. You can request such meeting any time during the semester. However, keep in mind that we must have such meeting before we can provide any CEA accommodations.

Being late to the class should be avoided by all means. I strongly recommend you NOT to come in to the class if you are more than 10 minutes late for the class. Repeated offenses to this are considered disruptive behaviors, and maybe subject to the point deduction (see the attendance policy).

I will determine the inclement weather, and send you a group-email before 7:30 am if I decide to cancel classes due to the inclement weather condition. If U of A issues an inclement weather in effect, our class is automatically cancelled.

Grade Disputes for SOCI3303 should be addressed directly to the instructor, Song Yang, whereas dispute about grades for SOCI3301 should be discussed with the lab instructor, Jason Neeley. In addition, student should turn in all materials pertaining to the lab to the lab instructor. Likewise, students should turn in all class materials to the class instructor.

We will try to synchronize our hand-back of your homework and the exams, so you would have the homework assignments that correlate with the exams before you take the exam. However, this is much easier said than done. Homework grading may not complete before the test takes place. If you wish to make use of the homework for your tests, one foolproof method is to make a personal copy of your homework assignments before you turn them in and keep your copies for your preparation for the exams. In case you have questions about the homework that may affect your preparation of the exam, contact the instructor for help.

Grade release/notification is taking place at the classroom only during the class sessions. If you miss the classes when we hand back your homework or exams, you can stop by my office. Such policy applies during the semester and after the semester. As we will be having no classes after the semester, any inquiries about your grades will be handled through your personal visit to my office (223 Old Main). No need for scheduling an appointment, I should be in my office morning 9:00 to 11:00 Monday through Friday. We will NOT be responding to your email or phone inquiries of your grades during and after the semester.

Good faith effort is expected, especially when students are called upon to resolve the disruptive behaviors. Those good faith efforts include, but not limited to, respectful behaviors to the instructor, responsible act by students to correct those disruptive behaviors or other issues that impede class lecturing and instructor's efforts to manage students. Violations to good faith efforts exemplify in rude/disrespectful treatment to the instructor, repeatedly dispute on the issues that were clarified by the instructor, excessive demand placed to the instructor to elucidate the issues that were clearly communicated with the students. Students exhibiting those "bad faith acts" after they receive the "disruptive behavior notice" are subject to 10-point deduction to their total grade.

The decision to hire a tutor or not is totally at your own personal discretion. The lab instructor and myself cannot be served as tutor, and we do NOT have anybody to recommend you as tutor. Tutor and instructor are very different: instructor completes the lecture and address specific questions raised by students. Tutors are held accountable for those who hired them. Things that tutor can do, but instructors will NOT are 1) students missing several weeks of

classes and need a repeat of the class materials, and 2) students who do not understand the materials and need repeat lectures.

Emotional control is to be expected at the classroom and in the faculty office, during the lectures, tests, and office visits. Classrooms and faculty offices are professional settings and we expect professional conducts from students. Previously we experienced outright crying during the exams, outburst of angers, frustration/aggression during lectures, office visits to faculty's office, or even in email communications. Those incidents are rare occasions, but they did occur in the past. Students who have difficulty containing their personal feeling should consult professionals for help. When we see such issues with lack of emotional controls, we may refer you to U of A Pat Walker Health Center, in particular CAPS at UARK for professional helps. Noted that CEA office may prescribe you with class accommodations, but they are NOT trained professionals who can help you to deal with those issues.

Students/general audiences not enrolled in this class but wishing to audit the class need to contact the instructor to obtain permission prior to coming to the class. Facing major shortages in teaching resources, we reserve our right to reject attendance by individuals who are not enrolled in the class.

The instructor holds the right to interpret those policy terms

EMERGENCY PROCEDURES

Many types of emergencies can occur on campus; instructions for specific emergencies such as severe weather, active shooter, or fire can be found at emergency.uark.edu.

Severe Weather (Tornado Warning):

- Follow the directions of the instructor or emergency personnel
- Seek shelter in the basement or interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building
- Stay in the center of the room, away from exterior walls, windows, and doors

Violence / Active Shooter (CADD):

- **CALL** – 9-1-1
- **AVOID**- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- **DENY**- Barricade the door with desk, chairs, bookcases or any items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it's safe.

- **DEFEND-** Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.

COVID – 19 Protocols

The University of Arkansas has public health directives in place regarding return to campus safety and classroom management issues.

U of A Health Guideline

<https://health.uark.edu/coronavirus/returning-to-campus/section-2-health-and-safety.php#3>

Some highlights from this guideline,

A) Basically, **Facemasks** are required for all in-door settings on U of Arkansas campus. That means everybody in the classrooms including instructors must wear facemask during the classes

B) **Covid-19 vaccine** are proven effective against this serious virus, and you are strongly encouraged to be vaccinated as soon as possible if you are not done so already. For details of getting the vaccination shots or any information of the vaccine, please contact the U of A Pat Walker Health Center <https://health.uark.edu/>

C) If you encounter the following **covid-19 symptoms**, please do not come to the class, contact your doctor and get the covid test.

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

U of A Testing/Reporting/Quarantine Guideline

<https://health.uark.edu/coronavirus/returning-to-campus/section-3-testing-reporting-tracing-quarantine-and-vaccine.php>

There, you may find information pertaining exposure to or a positive Covid-Test, that all positive cases need to do 1) self-reporting, and 2) immediate isolation and quarantine.

D) This is the **Pandemic year** like no others, please do all you can to stay safe and healthy. Remember, if you are not healthy, you cannot accomplish any academic work.

CLASS SCHEDULE

WEEK January 15

No class on January 15 (Monday) in observance of MLK Day

Orientation to the class.

WEEK January 22

Chapter 1 (1)

Chapter 1 (2)

WEEK January 29

Frequency and Percentage Distributions (1)

Measures of central tendency (1)

WEEK February 5

Measures of central tendency (2)

Measures of variability (1)

WEEK February 12

Measures of variability (2)

Measures of variability (3)

WEEK February 19

Test 1 on September 19 (Monday) – Group 1 (A Group)

Test 1 on September 21 (Wednesday) – Group 2 (B Group)

WEEK February 26

Bivariate statistics: cross-tabulation (1)

Bivariate statistics: cross-tabulation (2)

WEEK March 4

Chi-square test (1)

Chi-square test (2)

WEEK March 11

Chi-square test (3)

Review of class

WEEK March 18

Spring Break No Class

WEEK March 25

Measures of Bivariate Relations (1)

Measures of Bivariate Relations (2)

WEEK April 1

Test 2 on April 1 (Monday) – Group 1 (B Group)

Test 2 on April 3 (Wednesday) – Group 2 (A Group)

WEEK April 8

Two sample t-test (1)

Two sample t-test (2)

WEEK April 15

Two sample t-test (3)

Two sample t-test (4)

WEEK April 22

Analysis of Variance (ANOVA) (1)

Analysis of Variance (ANOVA) (2)

WEEK April 29

Analysis of Variance (ANOVA) (3)

Analysis of Variance (ANOVA) (4)

Lecture ends on May 2 (Thursday), 2024

WEEK May 6 (Final Exam Week)

May 6, Monday 10:15 am – 12:15 pm in the classroom

Class ends