STEPHEN F. AUSTIN STATE UNIVERSITY  
Department of Anthropology, Geography, and Sociology  
SOCIOLOGY 5530 – SOCIAL STATISTICS (CRN:12123)  
Cross-Listed with FORS 5377.500 and FORS 6377.500  
Fall, 2020 (August 24 through December 11)

Professor  
Dr. Ray Darville, Professor, Regents Scholar (2015-2016)  
and Department Chair  
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Office Hours: 10:00 – 11:00 Tuesdays; 1:00 – 2:00 Wednesdays (Zoom);  
others by appointment  
Class Hours: 9:00 – 10:00 a.m. Mondays and 1:00 – 2:00 p.m. Tuesdays;  
others as needed.  
Classroom: D2L (Zoom)

Course Description  
Collection, analysis, interpretation, and evaluation of social data.

Program Learning Outcomes for Sociology  
1. The student will be able to identify, compare, and contrast sociological classical  
   and contemporary theories.  
2. The student will be able to identify the principles of good social scientific research  
   design. Such principles include validity, reliability, precision in measurement,  
   and sampling methodology.  
3. The student will possess sociological knowledge as evidenced by the  
   identification of the major concepts involved with social stratification,  
   demography, race and ethnic relations, deviance, and globalization.  
4. The student will be able to apply sociological knowledge and skills to a variety of  
   settings.  
5. The student will recognize the implicit assumptions behind claims of knowledge  
   about the social world, will be able to evaluate and distinguish between strong  
   and weak arguments, and will be able to draw conclusions from a set of  
   premises.  
6. The student will be able to read theoretical arguments and to identify their major  
   strengths and weaknesses.  
7. The student will be able to analyze a data set using statistical techniques and  
   draw conclusions from the results.

Student Learning Outcomes  
After successfully completing this course, a student will be able to  
1. describe basic concepts in data analysis such as central tendency, dispersion,  
   descriptive statistics, inferential statistics, sampling distributions, sampling error,  
   significance level, hypothesis testing, confidence interval, margin of error ...
2. explain what each of the following basic statistics tells you: mode, median, mean, minimum, maximum, range, standard deviation, standard error, ...
3. determine what types of statistical analysis are appropriate for a particular research question and a particular data set
4. use SPSS to conduct statistical analyses
5. take raw data and create an SPSS data set
6. draw appropriate conclusions from statistical analyses
7. present results in written form that are clear, correct, and relevant to the research question
8. correctly complete all the steps in t-statistic, F-ratio, and chi-square hypothesis tests

<table>
<thead>
<tr>
<th>Program Learning Outcome for Sociology</th>
<th>Supported Student Learning Outcome</th>
<th>Skill Level</th>
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<td>PLO7</td>
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<td>Intermediate</td>
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**Course Materials**
- IBM SPSS Statistics Grad Pack 27 Base (Win/Mac; 6 months rental)
  Beginning week 2, you will be using SPSS throughout the semester. You may purchase this program for personal use and/or use the program at the library computer labs (LINC). However, due to some uncertainty of access in the LINC during the fall, 2020 semester, I strongly recommend that you purchase your license for SPSS to use on your personal computer. It is available for both Windows and Mac machines. Further information will be provided. There are two preferred vendors based on previous student experience:
  - https://studentdiscounts.com/
  - https://onthehub.com/
- Hand-held calculator. Your cell phone calculator is not recommended. A simple, low cost calculator will suffice.
- Microsoft Word or compatible word processing program
- Internet Browser (Chrome preferred)

**Course Requirements**
- **Examinations.** There will be three examinations, including the final exam. Each exam may consist of multiple-choice questions and short answer questions. Each examination is worth a total of 100 points and will be based on class lectures, the textbook, and other assigned readings. Some of the questions will be basic knowledge questions while others build on that knowledge gained through applied questions. Applied questions require you to understand the material and
to be able to think through a problem or to engage in abstract thinking. Much of these questions will involve the written interpretation of statistical output from SPSS. The written assignments are designed to improve your knowledge and your skills so that you will hopefully perform at a higher-level during examinations. Complete instructions will be given when appropriate.

- **Chapter Reading Quizzes.** With each chapter that you read and cover in the Szafran book, you will have a chapter reading quiz. These will be taken entirely using D2L. Each quiz will consist of 10 randomly selected questions from a test bank for each chapter; each test bank has about 30 questions. Some questions will be multiple-choice questions, and some will be true-false questions. Each question is worth 10 points, and each quiz is worth 100 points. *I do not drop any quiz scores.* Failure to take the quiz will result in a score of 0 for that quiz. The time limit is 10 minutes to take each quiz. They are open-note and open-book. You may use your lecture notes when taking the quizzes, but the final authority is the textbook. This means that if there is a difference between lecture notes and the textbook, I will use the answer in the book for the key. Over the last few years, I have found a moderate, positive relationship between exam scores and quiz scores. This means that students who score well on the quizzes generally do well on the exams; but, keep in mind that this is a pattern and that there are exceptions. While you may see each quiz as relatively unimportant in the overall scheme of the course, quiz scores count for a whole letter grade in the final determination of the course average. Hence, a high quiz average can sometimes, perhaps often, aid a student’s final average, while a low quiz average can hurt a student’s final average. I will post the deadlines on D2L for quizzes and give you sufficient time during the week to take the quizzes. The time deadline will always be 11:30 p.m. unless I inform you specifically.

- **Written Assignments.** You will be given written assignments from the Szafran book and other assignments as directed. These are designed to help you better understand the material and to practice your data analysis skills. These are **VERY IMPORTANT** to your work and should not be taken lightly. Each assignment is worth 100 points. Assignments may be submitted late, but will be worth a maximum of 50 points. The due dates will be posted on D2L and indicated in class. These must be typed and submitted through the assignments tool in D2L. You may work together on these assignments, but you must submit your own work (in other words, no plagiarism). More on these in class.

- **Papers.** You will be completing two papers this semester. Complete instructions will be provided in class. These papers provide an opportunity to practice your data analysis skills and your report writing skills while using a national data file from a recent national social survey.

- **D2L.** While I will be lecturing and working with you in class this semester, you are required to use D2L in this class. If you experience problems with the operation or function of D2L, please contact OIT Student Support. Ms. Andra Floyd in that office is a good contact person. The phone number is 936-468-1919.
Time Requirements and Credit Hours Awarded
SOC 5350 (Social Statistics) (3 credits; fully online) spans 16 weeks. The course contains extensive written content that includes the same information students in a face-to-face lecture course receive, requiring students to engage the online modules for at least three hours per week. Students will complete about one reading quiz and one assignment each week. Assignments will involve engaging in data analysis using SPSS, understanding results, and writing reports of results. For every hour a student spends engaging with the content, he/she spends at least two hours completing associated activities and assessments.

Class Attendance/Participation
Class Attendance and Excused Absence (6.7)
Students are expected to attend all classes, laboratories, and other activities on a regular and punctual basis. Attendance policies will be stated in the course syllabus. For those classes where attendance is a factor in the course grade, an accurate record of attendance will be maintained. Students may be excused from attendance for reasons such as health, family emergencies, or student participation in approved university-sponsored events. However, students are responsible for notifying their instructors in advance, when possible, for excusable absences. Students missing classes, other than university-sponsored trips, may contact the Office of Student Rights and Responsibilities (OSRR) and request that an absence notification be sent to the instructor(s). The notification is not an excuse, and is not evaluated by OSRR. The notification is only provided as a courtesy to the student and the student's instructor(s). Students remain responsible for providing documentation in a timely manner to the instructor for each absence. The instructor determines whether such documentation is satisfactory. If participating in university-sponsored events, announcements in mySFA constitute official notification. Faculty members sponsoring activities that require their students to be absent from other classes must submit to the provost and vice president for academic affairs an explanation of the absence, including the date, time, and an alphabetical listing of all attending students. If approved by the provost and vice president for academic affairs, this information will be posted on mySFA. Whether absences are excused or unexcused, a student is still responsible for all course content and assignments. Students with accepted excuses may be permitted to make up work for up to three weeks of absences during a semester or one week of a summer term, depending on the nature of the missed work. Make-up work must be completed as soon as possible after returning from an absence.

Course Policy for SOC550
Attendance is expected, but not required, at all online class meetings. However, I understand that this is an online class and that most, if not all of you, work full-time. Thus, I want to you to attend the twice weekly class sessions if you are able. I will record all class sessions for you to watch at your convenience. This will be listed by date in the Recordings area of D2L Zoom. I am open to moving a class session time if no one is able to attend.
Classroom Civility
Each student is encouraged to help create a learning environment that promotes learning, dignity, and respect for one another. Students speaking at inappropriate times, taking breaks, interrupting class by coming late or leaving early, engaging in distracting behaviors, using cell phones or pagers, using headphones, playing with computers or handheld devices, or behaving aggressively toward others will be asked to leave the classroom and may be subject to disciplinary action. The professor may deem additional behaviors as inappropriate. If you have been found to be using a cell phone in class, you will be counted as absent for that day.

Evaluation of Student Performance

Grading Formula
1. Exams (3) 50%
2. Quizzes (15) 15%
3. Assignments (14) 15%
4. Papers (2) 20%

Grading Scheme
90% - 100% = A “excellent”
80% - 89% = B “good”
70% - 79% = C “average”
60% - 69% = D “poor”
00% - 59% = F “failing”

Notes on Grades
• I will post your scores in D2L only. I do not post final letter grades on D2L but enter them directly into the university server that handles grades. I do not drop any scores. I do not offer bonus points or extra credit opportunities. Every point is important, and every activity contributes to your final class average.

• One common understanding among students is that grades are based entirely on student effort, or the amount of time a student spends working on the course material, preparing for exams, etc. While the amount of time devoted to a course affects grades, we also know that some students who work hard receive poorer grades while some students can spend relatively little time on a course and earn excellent grades. In this course, you must work according to your abilities and skills. Grades, at the end of the course, are given for performance, not effort. This happens to mirror the so-called real world in terms of income—some people work really hard for little pay while others can put in relatively less effort and get huge rewards. You may work just as hard as physicians, for example, but will probably not have the earning power that they have.

• Another issue is the grade distribution. The SFA General Bulletin discusses the grade definition above such that an A grade is reserved for excellent performance, a B grade is assigned for good performance, a C is assigned as average performance, a D for poor performance, and a F grade for failing performance. This suggests that some of you will earn a grade of C. A “C”
grade is not a “bad” grade. It suggests that performance is satisfactory, but not exceptional. Finally, I do not give grades, but rather assign grades based on student performance during the semester.

- My job is to help you succeed in this class, to provide a suitable learning environment, to answer your questions; I am making that commitment to you. I hope that your commitment to this course and your success is appropriate. Your job is to attend class every class period, take notes on class lectures, and put in the time necessary to learn the basics of data analysis.

Student Academic Dishonesty (4.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit.

Please read the complete policy at: http://www.sfasu.edu/policies/academic_integrity.asp

Course Add/Drop (6.10)
Students may add courses through the second class day during the summer semesters and through the fourth class day during the fall or spring semesters. Academic unit chairs/directors will reconcile class schedules by the official reporting date. Students may drop classes through five working days past mid-semester or mid-session as applicable. A student may not drop a course after these dates, unless withdrawing from the university. The following rules apply: 1. A withdrawal or course dropped by the official reporting date will not be recorded on a student’s transcript. 2. After the official reporting date, a drop or withdrawal will be noted as a "W" grade on the student’s official transcript. Undergraduate students who enrolled in a Texas public institution of higher education for the first time in the fall 2007 or thereafter may not drop more than six courses with a "W" grade. This number includes any course dropped at another Texas public institution but excludes full semester withdrawals and exceptions as defined in Texas law (Education Code section 51.907). After six withdrawals, the student will receive the grade awarded for each attempted course. 3. Beginning on the sixth working day after mid-term for full semester courses or mid-session for partial semester courses, a drop will not be permitted unless the student withdraws from all courses for the term. This withdrawal will be noted on the transcript as a "WP" if the student is passing at the
time or a "WF" if the student is failing at the time. 4. If a student has been found guilty of academic dishonesty, a grade of "WP" or "WH" may be changed to "WF" at the discretion of the faculty member. In the case of a grade change to "WF," the course will not count toward the six course drop limit since the student is incurring an academic penalty. 5. Approved medical withdrawals may be granted for medical conditions that prevent the student from completing the semester. Medical withdrawals are not intended to shield a student from unsatisfactory progress. Medical withdrawal requests must be made to the Office of the Registrar within six months of the illness or incident cited in the medical withdrawal request, and will be considered by a committee comprised of the registrar and other appropriate university officials.

**Course Grades (5.5)**
At the discretion of the instructor of record and with the approval of the academic unit head, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F, except as allowed through policy [i.e., Active Military Service (6.14)]. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Academic Accommodation for Students with Disabilities (6.1)**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).

**Course Schedule/Timeline**

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<tr>
<th>Week Number</th>
<th>Monday Date</th>
<th>Topic</th>
<th>Assignment</th>
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<tr>
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<td><strong>Unit 1 Introduction, Data Sets and Univariate Descriptive Statistics</strong></td>
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<tr>
<td>1</td>
<td>August 24</td>
<td>Introduction</td>
<td>• Buy Szafran Textbook and acquire SPSS</td>
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<td>• Complete honesty statement assignment</td>
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<td>• Complete BIO sketch</td>
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<td>• Attend class sessions</td>
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<td>• Read and study Chapter 1</td>
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<td>• Complete Quiz 1</td>
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<td>• Read Content Module 1</td>
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<td>• Complete Assignment 1</td>
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<td>August 31</td>
<td>Data Sets (Monday,</td>
<td>• Read and study Chapter 2</td>
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<td>• Read Content Module 2</td>
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<td>3</td>
<td>September 7</td>
<td>September 7 is Labor Day, an official university holiday) Frequency Tables and Univariate Graphs; Central Tendency and Dispersion</td>
<td>• Read and study Chapters 3, 4 • Read Content Modules 3, 4 • Complete Quizzes 3, 4 • Attend class sessions • Complete Assignments 3 and 4</td>
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<td>4</td>
<td>September 14</td>
<td>Creating New Variables</td>
<td>• Read and study Chapter 5 • Read Content Module 5 • Complete Quiz 5 • Attend class sessions • Prepare for Exam 1 • Complete Assignment 5 • Complete Paper 1</td>
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<td>Unit 2 – Descriptive Multivariate Statistics</td>
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<td>September 21</td>
<td>EXAMINATION 1; Comparing Subgroup Means</td>
<td>• Read and study Chapter 6 • Read Content Module 6 • Complete Quiz 6 • Attend class sessions • Complete Assignment 6</td>
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<td>6</td>
<td>September 28</td>
<td>Crosstab Tables and Multivariate Graphs</td>
<td>• Read and study Chapter 7 • Read Content Module 7 • Complete Quiz 7 • Attend class sessions • Complete Assignment 7</td>
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<td>7</td>
<td>October 5</td>
<td>Nominal and Ordinal Measures of Association</td>
<td>• Read and study Chapter 8 • Read Content Module 8 • Complete Quiz 8 • Attend class sessions • Complete Assignment 8 • Complete Paper 2</td>
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<td>8</td>
<td>October 12</td>
<td>Pearson’s Correlation and Bivariate Regression</td>
<td>• Read and study Chapter 9 • Read Content Module 9 • Complete Quiz 9 • Attend class sessions • Prepare for Exam 2 • Complete Assignment 9</td>
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<td>9</td>
<td>October 19</td>
<td>Multiple Regression; EXAMINATION 2</td>
<td>• Read and study Chapter 10 • Read Content Module 10 • Complete Quiz 10 • Attend class sessions • Complete Assignment 10</td>
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## Unit 3 - Inferential Statistics

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<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignments</th>
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| 10   | October 26 | Sampling Distributions and Normal Distributions | - Read and study Chapter 11  
- Read Content Module 11  
- Complete Quiz 11 |
| 11   | November 2 | Hypothesis Testing; One-Sample t Tests | - Read and study Chapter 12  
- Read Content Module 12  
- Complete Quiz 12  
- Attend class sessions  
- Complete Assignment 12 |
| 12   | November 9 | Paired-Samples t Tests; Independent-Samples t Tests | - Read and study Chapter 13  
- Read Content Module 13  
- Complete Quiz 13  
- Attend class session  
- Complete Assignment 13 |
| 13   | November 16 | Thanksgiving Holidays (no classes) | |
| 14   | November 23 | Analysis of Variance | - Read and study Chapter 14  
- Read Content Module 14  
- Complete Quiz 14  
- Attend class sessions  
- Complete Assignment 14 |
| 15   | November 30 | Chi-Square | - Read and study Chapter 15  
- Read Content Module 15  
- Complete Quiz 15  
- Attend class sessions  
- Complete Assignment 15  
- Prepare for Final Exam |
| 16   | December 7 | FINAL EXAMINATION WEEK | - Complete Final Exam |

## Important University Dates This Semester

- August 24—First day of classes for Fall, 2020 semester  
- August 27—Last day to add classes  
- September 7—Labor Day Holiday  
- September 15--First Day to apply for degrees to be completed In May 2020  
- October 14—Mid-semester  
- October 21—Last day to drop courses  
- October 21—Last day to withdraw from the university without WP or WF  
- November 21—Beginning of Thanksgiving holidays  
- November 30—Classes resume from Thanksgiving holidays (8 a.m.)  
- November 30—Last day to withdraw from the University  
- December 7--FINAL EXAM WEEK beings  
- December 12--COMMENCEMENT