Instructor: Dr. Garcia-Alexander
Office: CH 217L
Availability: Tue 12:00-1:00pm (in-person or via zoom) -or- by appointment
Phone: 503-725-9572
Email: gin5@pdx.edu
Course Title: SOC 396
CRN:
Credits: 4
Course Location: online
Course Meeting Schedule: n/a

Instructor Contact Information
The best way to reach me is via email at gin5@pdx.edu -- You can expect to receive a same-day response during business hours (M-F 8am to 5pm). Response times may be longer on evenings and weekends. Students may come in anytime during office hours, connect with me via zoom, or may schedule virtual or in-person office visits by appointment.

Course Description
This course is designed to promote understanding and knowledge of statistical methods used in the social sciences. Students will be introduced to a wide range of techniques for analyzing social science data. Students will learn how, when and why statistics are used and why it is necessary to understand them. The topics to be studied are conceptualization, operationalization, and measurement of socially based phenomena. Students will learn how to summarize data with graphs and numbers, make generalizations about populations based on samples of the population, and describe the relationships between variables. We will discuss some theory, though the majority of the class is dedicated to the application and interpretation of statistics.

This course provides the knowledge necessary to understand statistics as well as apply them in a meaningful way. Upon completion of this course, students will be prepared to move on to more advanced statistics courses and SOC 397/398.

This course will serve as a substitution for STAT 243 for SOC majors (other majors consult advisors).

**Important note: SOC 396 will not meet the 100-level MATH requirement as per the university guidelines. Students must meet the 100-level MATH requirement separately.

Course Outcomes/Learning Objectives

- Calculate basic statistics
- Understand fundamental concepts such as mean, probability, and frequency
- Develop basic skills in statistical reasoning
- Develop skills necessary to move on to more advanced research methods courses
- Promote the knowledge and use of statistical software packages such as SPSS/STATA
• To create intelligent consumers of statistical findings presented in various outlets

Course Prerequisites
Math 95 recommended

Required Materials
1. **required skills/equipment** ability to access videos and slide shows and use standard computing skills (you must have access to a computer or tablet that can access/download/upload D2L course materials and has a word processing software)
2. **required text** Frankfort-Nachmias: Social Statistics for a Diverse Society, 8th edition (7th edition acceptable)
3. **strongly recommended text** Wagner: Using SPSS for Social Statistics & Research Methods, (older editions acceptable)
4. **required software** – if unable to work in open access labs on campus to complete HW assignments** IBM SPSS Statistics Standard Grad Pack v26.0 (for Windows or Mac)

*you can purchase 6month or 12month access to the software with this link – this option provides access to the full version of SPSS and is preferable if you are mainly working from home http://www.hearne.software/Software/SPSS-Grad-Packs-for-Students-by-IBM/Pricing?product=SPSS%20Grad%20Packs%20for%20Students%20by%20IBM&currency=USD&region=US&version=Statistics+Standard+Grad+Pack&class=Student&platform

Major Assignments
Grades are determined based on a combination of activities, HWs, and exams. All materials must be submitted online via submission folders in D2L. Grades/feedback will be provided in D2L.

• Weekly Participation Activities (due Sun 9pm) – cover learning objectives and represent your participation in the class. These account for 10% of the overall grade. Given that they are completion grades, activities must be submitted on time for credit.

• HW Assignments – 4 HW assignments will be due throughout the term and represent 60% of overall grade. These HWs will each contain 4 questions and incorporate various skills from activities and lecture as well as the use of SPSS. Dates/deadlines are provided below.

• Exams are administered online and represent 30% of the overall grade (2 exams @ 15% each). No special software is required - students must log in to D2L during the specified period and take the exams (see schedule and D2L for dates and details).

Grading Criteria

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<tr>
<td>Examinations</td>
<td>2 @ 15% each</td>
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<tr>
<td>Homework</td>
<td>4 @ 15%</td>
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<tr>
<td>Participation (Activities)</td>
<td>10%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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PSU Grading System
Course Attendance and Make-up Policies
We will not meet in person and attendance will be assessed via submission of Activities in D2L. You should access D2L once weekly as keeping up with the posted schedule is highly important to your grade in this course.

Homework’s are due by the specified deadline in Assignments folders in D2L. Any homework turned in after the deadline is considered late and will be assessed the following deductions: (-10) if submission is within 48 hours of deadline; (-20) if submission is 48 hours to 1 week late. After 1 week the assignment will be accepted for 50% credit.

Exams must be taken during the specified access period. Students who miss the access period may take a make-up exam within one week of the access period but will be assessed a 30% deduction. Please contact instructor to schedule.

*If a student has submitted written documentation (documented illness, death of an immediate family member, or university-sponsored event), late penalties will not apply. Please notify instructor as soon as possible to make arrangements for submission of late work or to schedule a make-up exam.

** Unless you have acceptable documentation, late participation activities will not be accepted for credit**

Drop/Withdraw Deadline
In the event that a student is no longer able to complete the course, they must withdraw from the class in order to receive a "W" rather than an "F". Please refer to the student handbook for more information.

Disability Access Statement
If you have, or think you may have, a disability that may affect your work in this class and feel you need accommodations, contact the Disability Resource Center to schedule an appointment and initiate a conversation about reasonable accommodations. The DRC is located in 116 Smith Memorial Student Union, 503-725-4150, drc@pdx.edu, https://www.pdx.edu/drc

• If you already have accommodations, please contact me to make sure I have received a notification, confirm required options, and request testing accommodations in advance of exam access periods.

Safe Campus Statement
Portland State University desires to create a safe campus for our students. As part of that mission, PSU requires all students to take the learning module entitled Creating a Safe Campus: Preventing Gender Discrimination, Sexual Harassment, Sexual Misconduct and Sexual Assault. See http://www.pdx.edu/sexual-assault/safe-campus-module. If you or someone you know has been harassed or assaulted, you can find the appropriate resources on PSU’s Enrollment Management & Student Affairs: Sexual Prevention & Response website at http://www.pdx.edu/sexual-assault
Title IX Reporting
As an instructor, one of my responsibilities is to help create a safe learning environment for my students and for the campus as a whole. Please be aware that as a faculty member, I have the responsibility to report any instances of sexual harassment, sexual violence and/or other forms of prohibited discrimination. If you would rather share information about sexual harassment, sexual violence or discrimination to a confidential employee who does not have this reporting responsibility, you can find a list of those individuals on PSU’s Enrollment Management & Student Affairs: Sexual Prevention & Response website at http://www.pdx.edu/sexual-assault. For more information about Title IX please complete the required student module “Creating a Safe Campus: Preventing Gender Discrimination, Sexual Harassment, Sexual Misconduct and Sexual Assault” in the “My Courses” section of D2L.

Academic Integrity
Academic integrity is a vital part of the educational experience at PSU. Please see the PSU Student Code of Conduct for the university’s policy on academic dishonesty. A confirmed violation of that Code in this course may result in failure of the course.

Incomplete Policy
Students do not have a right to receive or demand an Incomplete grade. The option of assigning an Incomplete grade is at the discretion of the instructor when the following criteria are met.

Eligibility Criteria:
1. Required satisfactory course completion/participation.
2. Reasonable justification for the request.
3. Incomplete grade is not a substitute for a poor grade.
4. Written agreement. (See Incomplete Contract)
5. Resolving the Incomplete.


Flexibility Statement
The instructor reserves the right to modify course content and/or substitute assignments and learning activities in response to institutional, weather, or class situations.

Course Calendar/Schedule
This is a fully online course, meaning that instruction will come solely from video segments, lecture slides, and handouts made available on D2L. To access d2l, go to the http://www.d2l.pdx.edu. To login, enter your odin ID and your odin password. If you do not have an odin account, or are not sure what your odin ID or password is, go to https://www.account.pdx.edu/ or contact the Information Technology Help Desk at help@pdx.edu or 725-HELP.

Course materials are organized online in weekly learning modules. To find learning modules, look for the Content tab at the top of the D2L homepage, then choose Weekly Content. Each weekly summary will include complete instructions and assignments for the week. Please be sure to start with the Weekly Summary at the beginning of each week. Students must keep up with the lectures, assigned readings, and assignments to successfully complete the course.
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<tr>
<th>Course Class Schedule</th>
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<tr>
<td><strong>Week 1 (Jan 6-12)</strong></td>
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| Jan 6-12 | Introduction and Overview of Course  
Readings: Frankfort, Ch. 1 (p 1-9) “The What and Why of Statistics”; Video Lecture Notes 1  
*Things to do by the end of the week:*  
Watch class info clip  
Review weekly summary, read chapter, and watch Lecture 1  
**Complete Activity** – Variables  
Read syllabus and complete online syllabus quiz  
| Content > Weekly Modules > Week 1 |
| Due by 9p (1/12) | Submit Wk 1 Activity online in D2L (must be on time to receive weekly participation credit)  
Assignments>Activity 1 |
| **Week 2 (Jan 13-19)** | |
| Jan 13-19 | Conceptualization and Operationalization  
*Things to do by the end of the week:*  
Review weekly summary, read chapter, and watch Lecture 2  
**Complete Activity** – Levels of Measurement  
Review Using SPSS slides (for your review)  
Download HW 1 and begin working on it  
| Content > Weekly Modules > Week 2 |
| Due by 9p (1/19) | Submit Wk 2 Activity online in D2L (must be on time to receive weekly participation credit)  
Assignments>Activity 2 |
| **Week 3 (Jan 20-26)** | |
| Jan 20-26 | Descriptive Statistics  
Readings: Frankfort, Ch. 2 “Organization of Information”, Ch. 3 “Graphic Presentation”; Video Lecture Notes 3  
*Things to do by the end of the week:*  
Review weekly summary, read chapters, and watch lecture 3  
**Complete first part of Activity** – Freq. Dist.  
| Content > Weekly Modules > Week 3 |
| Due by 9p (1/26) | Submit Wk 3 Activity online in D2L (must be on time to receive weekly participation credit)  
*Submit HW 1 (due Sun, Jan 26 by 9pm)*  
Assignments>Activity 3 HW 1 |
| **Week 4 (Jan 27 – Feb 2)** | |
| Jan 27 – Feb 2 | Central Tendency  
Readings: Frankfort, Ch. 4 "Measures of Central Tendency"; Video Lecture Notes 4  
*Things to do by the end of the week:*  
Review weekly summary, read chapter, and watch lecture 4  
**Complete part 2 of Activity** – Central Tendency  
Download Exam 1 Review  
Download HW 2 and begin working on it  
<p>| Content &gt; Weekly Modules &gt; Week 4 |</p>
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<thead>
<tr>
<th>Week 5 (Feb 3-9)</th>
<th>Due by 9p (2/2)</th>
<th>Submit Wk 4 Activity online in D2L (must be on time to receive weekly participation credit)</th>
<th>Assignments &gt; Activity 4</th>
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<tbody>
<tr>
<td>Feb 3-9</td>
<td>Dispersion &amp; Spread</td>
<td>Readings: Frankfort, Ch. 5 &quot;Measures of Variability&quot;; <em>Video Lecture Notes 5</em></td>
<td>Content &gt; Weekly Modules &gt; Week 5</td>
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<td><strong>Things to do by the end of the week:</strong></td>
<td>Review weekly summary, read chapter, and watch lecture 5 Complete Activity – S.D.</td>
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<td>Review and prepare for Exam 1</td>
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<tr>
<td>Due by 9p (2/9)</td>
<td>Submit Wk 5 Activity online in D2L (must be on time to receive weekly participation credit)</td>
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<td>Assignments &gt; Activity 5</td>
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<tr>
<td><em>Feb 9-11</em></td>
<td><strong>Take Exam 1 online</strong> – Available Sun, Feb 9 (must be completed by Tue, Feb 11 at 9pm)</td>
<td>Quizzes &gt; Exam 1</td>
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<tr>
<td>Week 6 (Feb 10-16)</td>
<td>Submit Wk 6 Activity online in D2L (must be on time to receive weekly participation credit)</td>
<td>Assignments&gt; Activity 6 HW 2</td>
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<td>Feb 10-16</td>
<td>Probability &amp; The Normal Distribution</td>
<td>Readings: Frankfort, Ch. 6 “The Normal Distribution”; Ch. 8 “Estimation”; <em>Video Lecture Notes 6</em></td>
<td>Content &gt; Weekly Modules &gt; Week 6</td>
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<td><strong>Things to do by the end of the week:</strong></td>
<td>Read weekly summary, read chapter, and watch lecture 6 Complete Activity – z scores</td>
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<td>Download HW 3 and begin working on it</td>
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<td>Due by 9p (2/16)</td>
<td>Submit Wk 6 Activity online in D2L (must be on time to receive weekly participation credit)</td>
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<td><em>Submit HW 2</em> (due Sun, Feb 16 by 9pm)</td>
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<td>Week 7 (Feb 17-23)</td>
<td>Submit Wk 7 Activity online in D2L (must be on time to receive weekly participation credit)</td>
<td>Assignments&gt; Activity 7</td>
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<td>Feb 17-23</td>
<td>Hypothesis Testing (t-test and z; ANOVA)</td>
<td>Readings: Frankfort, Ch. 9 “Testing Hypotheses”; Ch. 12 “Analysis of Variance”; <em>Video Lecture Notes 7-8</em></td>
<td>Content &gt; Weekly Modules &gt; Week 7</td>
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<td><strong>Things to do by the end of the week:</strong></td>
<td>Review weekly summary, read chp’s, and watch lectures 7-8 Complete Activity – hypo. tests</td>
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<td>Due by 9p (2/23)</td>
<td>Submit Wk 7 Activity online in D2L (must be on time to receive weekly participation credit)</td>
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<td>Week 8 (Feb 24 – Mar 1)</td>
<td>Submit Wk 8 Activity online in D2L (must be on time to receive weekly participation credit)</td>
<td>Assignments&gt; Activity 8</td>
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<td>Feb 24 – Mar 1</td>
<td>Hypothesis Testing (chi-square)</td>
<td>Readings: Frankfort, Ch. 10 “Bivariate Tables”, Ch. 11 “The Chi-Square Test…” p. 347-362; <em>Video Lecture Notes 9</em></td>
<td>Content &gt; Weekly Modules &gt; Week 8</td>
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<td><strong>Things to do by the end of the week:</strong></td>
<td>Review weekly summary, read chapter, and watch lecture 9 Complete Activity – cross tabs</td>
<td>Download Exam 2 Review Download HW 4 and begin working on it</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Readings</td>
<td>Things to do by the end of the week:</td>
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<td>Mar 2-8</td>
<td>Measures of Association</td>
<td>Frankfort, Ch. 11 “The Chi-Square Test and Measures of Association” p. 363-373; Video Lecture Notes 10</td>
<td>Read Weekly Summary, read chapters, and watch lecture 10 Complete Activity - MoA</td>
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<tr>
<td>Mar 9-15</td>
<td>Correlation &amp; Regression</td>
<td>Frankfort, Ch. 13 “Regression and Correlation”; Lecture Notes 11</td>
<td>Review Weekly Summary, read chapters, and watch lecture 11 Complete Activity - correlation Review for Exam 2</td>
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<tr>
<td>Due Fri 9p (3/13)</td>
<td>*Submit HW 4 to D2L – due Fri, Mar 13 by 9pm</td>
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<td>Due Sun 9p (3/15)</td>
<td>Submit Wk 10 Activity online in D2L (must be on time to receive weekly participation credit)</td>
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<td><em>Mar 15- 17</em></td>
<td>*Take Exam 2 online – available Sun, Mar 15 (must be completed by Tue, Mar 17 at 9pm)</td>
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