

# Quantitative Research Methods Section 02

## SOCI 104

Fall 2024 3 Unit(s) 08/21/2024 to 12/09/2024 Modified 10/21/2024

### Contact Information

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Dr. Megan Thiele Strong

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Office Hours: Wednesdays 9:30-10:25 a.m. in-person DMH 224 or on Zoom

<https://sjsu.zoom.us/j/92544100827>

I am available to meet other times during the week by request.

### Course Information

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Wednesdays 12:00-1:15 PM DMH 226A

### Course Description and Requisites

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Quantitative research methods including survey research design, hypothesis formulation, questionnaire and interview design, scaling, sampling and data preparation and SPSS analysis. Completion of a class research project plus individual research reports. Required for majors.

Prerequisite: SOCI 1 or equivalent, SOCI 15 or SOCI 102 or approved Statistics course from another school; SOCI 100W, SOCI 101 and upper division standing.

Letter Graded

### Program Information

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Program Learning Outcomes

1. Students will be able to think sociologically about the relationship between social structure, interaction, identities, and inequalities.
2. Students will be able to identify and explain major sociological theories and apply them to everyday life.
3. Students will be proficient in qualitative and quantitative research design, data collection and data analysis.
4. Students will be proficient in oral and written communication skills appropriate to the discipline.
5. Students will be able to practice sociology as educated and civically engaged persons.

## Course Learning Outcomes (CLOs)

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CLO1: Students will gain knowledge of and able to use basics of quantitative research design, including but not limited to the research process, inductive and deductive logic, theory, conceptualization and operationalization, survey design, data analysis, presentation and data reporting. This CLO will be assessed throughout the course by assignments and the final project.

CLO2: Students will develop basic proficiency using the statistical software SPSS. Students will code data, analyze data and interpret SPSS output. This CLO will be assessed throughout the course by three SPSS specific assignments and the final project.

CLO3: Students gain knowledge of and grapple with interpretation of research ethics, including the three ethical principles that structure social science research and the 6 ethical principles of the American Sociological Associations Code of Ethics. This component will be assessed in mini-assignments and group discussion board posts.

CLO4: Students will understand and use descriptive and inferential statistics. This component of this class should be a review and extension of an Introduction to Statistics class such as SOCI. 15. This component will be assessed in mini-assignments and the final project.

CLO5: Students will conduct a quantitative research project, presentation of project and report from the project. This final quantitative report will include: asking a research question; conducting an appropriate literature review on the research question; describing and implementing a research design; analyzing data; and drawing conclusions based on the findings that answer the research question. Proficiency will be assessed in mini-module assignments, the final project presentation and in the final research report.

## Course Materials

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Materials are provided online through Canvas. Some materials will need to be accessed through the SJSU library. Some film or other media may need to be purchased during the course.

## Grading Information

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Your grade is earned from a total of 350 points; the below distribution is an approximation and is subject to change. There will also be some extra credit opportunities.

In-class and Module Assignments	170 pts.
Discussion Board Assignment Posts	72 pts.
Quizzes	63 pts.
Final Project Presentation	15 pts.
Final Project Report and/or Learning Page	30 pts.
<b>TOTAL</b>	<b>350 pts.</b>

Please expect the possibility of 2 extra credit points for successfully installing SPSS and up to 10 additional points that will be available throughout the semester.

## Criteria

Grades will be calculated as follows:

331-350+ = A
315 - 330 = A-
303 - 314 = B +
293 - 302 = B
280 - 292 = B -
268 - 279 = C +

258 - 267 = C
245 - 257 = C -
233 - 244 = D +
223 - 232 = D
209 - 222 = D -
000 - 208 = F

## University Policies

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Per [University Policy S16-9 \(PDF\)](http://www.sjsu.edu/senate/docs/S16-9.pdf) (<http://www.sjsu.edu/senate/docs/S16-9.pdf>), relevant university policy concerning all courses, such as student responsibilities, academic integrity, accommodations, dropping and adding, consent for recording of class, etc. and available student services (e.g. learning assistance, counseling, and other resources) are listed on the [Syllabus Information](https://www.sjsu.edu/curriculum/courses/syllabus-info.php) (<https://www.sjsu.edu/curriculum/courses/syllabus-info.php>) web page. Make sure to visit this page to review and be aware of these university policies and resources.

## Course Schedule

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Below is the course outline. This schedule is subject to change with fair notice, which will be provided via Canvas.

	Topics	Reminders
MODULE 1	Introductions and Course Basics	
MODULE 2	Introduction to Social and Quantitative Research, Exploring Research Interests and Levels of Measurement	

	Topics	Reminders
MODULE 3	Introduction to Social and Quantitative Research Continued: Units of Analysis, Variables, Independent variables, Dependent Variables, and Developing a Research Question	<b>Check:</b> Last Day to Add Courses and Register Late
MODULE 4	Theory and Inductive and Deductive Reasoning	
MODULE 5	Conceptualization and Operationalization	
MODULE 6	Sampling and Intro to SPSS	
MODULE 7	Survey Research, Validity and Reliability and the Code Book	
MODULE 8	Research Ethics	
MODULE 9	SPSS: Descriptive Statistics and Recoding Variables	
Module 10	SPSS: Graphs and Splitting Files/Comparing Subsets of Cases	

	Topics	Reminders
MODULE 11	SPSS: Crosstabs and the Chi-square Test	
MODULE 12	The Literature Review	
MODULE 13	The Literature Review cont.	
MODULE 14	Summarizing and Reporting Research	
MODULE 15	Thanksgiving Break	
MODULE 16	Presenting Your Research/Final Projects	