

San José State University
College of Education/Department of Special Education
EDSE 231X, Educational Research: Design and Implementation, Section 01,
Fall, 2016

Course and Contact Information

| | |
|-------------------------|--|
| Instructor: | Lisa Simpson, Ed.D. |
| Office Location: | Sweeney Hall 235 |
| Telephone: | 408 924-2924 |
| Email: | lisa.simpson@sjsu.edu |
| Office Hours: | Thursdays 2:00-4:00 and by appointment |
| Class Days/Time: | Wednesdays 4:00-6:45 |
| Classroom: | Sweeney Hall 212 |
| Prerequisites: | Completion of EDSE 285 and EDSE 231 with a B or higher in each class |

Course Format

This course is a hybrid course. There will not be formal in class sessions every week. Much of the work of this course will be the collection of data for individual student research projects. Students are responsible for collecting their data following the guidelines developed in each IRB proposal and reporting the data to the instructor on the days and times given. Students will need access to the internet and appropriate data analysis tools for their research project: Excel Software for Single-Subject design studies; Qualtrics, Survey Monkey, or SPSS for survey design studies.

CANVAS Learning Management System

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on [Canvas Learning Management System course login website](http://sjsu.instructure.com) at <http://sjsu.instructure.com>. You are responsible for regularly checking your email for updates from the instructor.

Course Description

EDSE 231X is a continuation of the process for the development of educational research, implementation of the study, and writing for the Masters' of Arts project or thesis started in EDSE 231. Students will submit the IRB (SJSU Institutional Review Board) proposal, collect data, write the final versions of chapter 3, the methodology section, and chapter 1, the introduction of the MA project and research questions, and chapter 2, the literature review. The course content will focus on writing in the APA format, methodologies for addressing the research questions, data collection, and developing the final IRB proposal for the MA project or thesis.

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

1. Distinguish between the various methodologies used in educational and related research, particularly survey research and single subject research
2. Critically evaluate research on the basis of its rationale, methodology, and ethical practices
3. Identify limitations of studies and the sources of limits in sampling, data analysis and interpretation, statistical procedures and data collection
4. Identify and analyze implications of research studies on the development of educational theory, policy, and practice
5. Utilize education resources such as research journals, ERIC network, Education Abstracts, Dissertation Abstracts, State and Federal agency publications and others
6. Identify sections of research reports and aspects of research design that indicate possible bias or contamination, including sampling bias
7. Understand internal and external validity and recognize variables that are potentially threatening to validity
8. Recognize and describe independent, dependent, control, and extraneous variables in research
9. Plan and conduct research that has high internal validity and external validity
10. Explain statistical concepts as they are used in reports of research: descriptive statistics (e.g., mean, median, mode), frequencies, correlations, and inferential statistics
11. Explain the concepts of statistical and practical significance and use them to evaluate the significance of findings reported in research
12. Explain research findings meaningfully in terms of a study rationale, focus, and hypothesis or questions
13. Write an introduction, review of literature, and methodology sections of a research report using correct APA style
14. Analyze and report data from a research study using tables, graphs, and narrative text following correct APA style

Required Texts/Readings

Textbooks (You should have all of these books from previous MA courses.)

1. *Educational Research: Competencies for Analysis and Applications*

Authors: Mills and Gray (2016)

ISBN-13: 978-0134041032

2. *How to Write a Master's Thesis (2nd edition)*

Author: Bui (2013)

ISBN-13: 978-1452203515

3. *Publication Manual of the American Psychological Association (APA Manual) 6th Edition (2009)*

ISBN-13: 978-1433805615

Library Liaison

The Special Education Library Liaison is Teresa Slobuski. She will be happy to assist you with finding resources for your research. Her contact information is:

Phone: 408-808-2318

Email: Teresa.slobuski@sjsu.edu

Course Requirements and Assignments

Students are expected to attend each class, and submit assignments/papers by the date indicated on the calendar. You are required to use CANVAS for this class.

All papers should be typed, double-spaced, paginated, and free of spelling and grammatical errors. Please proofread carefully (or ask someone to proofread/edit papers) before submission. The instructor will stop reading a paper after five errors (i.e., spelling errors, run-on sentences, fragments, subject-verb disagreements, incorrect or undesirable verb tense and/or lengthy sentence structures), and will return the paper for revision.

1. Detailed Timeline of Data Collection and Analysis Plan 50 points (CLO 14)

Submit a detailed timeline for data collection with dates! For survey data include the place or group you plan to collect data from and the date you will attend the group meeting or contact the group leader. Also include the date of any reminders you intend to send, date you will close the survey, and the anticipated number of recipients from each group. For single subject research include dates that potential participants will be approached, date permission slips will be sent home as well as follow up dates, dates that you will train data collectors and the plan for how you will do the training, and dates for baseline and intervention phases for participants. Submit this data collection plan to CANVAS and gain approval from the instructor before beginning your data collection..

Timeline is due September 28, 2016 at 4:00pm.

2. Final Version of Chapter 3: Methodology 50 points (CLO 1-13)

A first-version of Chapter 3 was submitted in the previous class, EDSE 231. Make any revisions to Chapter 3 based upon feedback from last semester as well as revisions needed if you adjusted your research design in the IRB process. This chapter should now be written in the past tense and should be error free. **Chapter 3 should be no more than 12 pages, not including references.** Upload chapter 3 to CANVAS. The plagiarism tool, turnitin will review the paper online.

Chapter 3 is due October 19, 2016 at 4:00 pm.

3. Final version of Chapters 1 and Chapter 2 50 points (CLO 1-13)

Submit the final versions of the first two chapters of the thesis or project. Chapter 1 is the introduction to the project with a description of the problem and research questions. Chapter 2 is the literature review for the research that you are proposing to conduct. All edits should be made for these chapters and these “clean” copies will have one final review.

Chapters 1 and 2 should be no more than 20 pages combined, not including references. Upload Chapters 1 and 2 into the CANVAS. The plagiarism tool, turnitin will review the paper online.

Chapter 1 and 2 are due November 16, 2016 at 4:00pm.

4. Results: Analysis of Data 75 points (CLO 14)

After data has been collected you will need to analyze the data following your detailed plan from item 3 above. Create one or more data tables and/or graphs with your results. Your tables and/or graphs must be in APA format. Write a narrative description of your results. At this point you are not “interpreting” the data you are only analyzing the data and describing the results. Submit your paper to CANVAS. This will become part of your Chapter 4 in the next class.

Analysis of Data is Due December 14, 2016 at 5:15pm.

5. Final Examination (Presentation) 25 points (CLO 14)

Students must attend the Final Examination for this course so please plan accordingly. Note that the final examination is held at a later time than regular class time. Each student will prepare a brief slide presentation of their data analysis to share with the class during the Final Examination period. The presentation should include 1-3 data tables and/or graphs of the results of your study.

Final Presentation of Data is Due December 14, 2016 at 5:15pm.

Also submit a clean paper version of Chapters 1-3 combined by December 22. Your references and appendices will go at the end of chapter 3. This will be given to Dr. Hughes for next semester.

Grading Information

All MA students must receive a GPA of 3.0 with a grade of B or better in each MA class to be able to continue with coursework. An “Incomplete” is only given when 80% or more of the work has been completed on time.

1. Students must complete ALL assignments to receive a grade in this class. Attendance in every class is paramount.
2. All written assignments must meet standards of academic and professional quality as outlined in APA format for reporting on research. All assignments must be typed, double-spaced, paginated, and free of spelling and grammatical errors. You must cite all work and have research to support your study/project.
3. The quality of your work and adherence to APA guidelines will impact your final grade. Remember, your study must be based on research and your work cited appropriately.
4. Worked submitted late will receive a deduction of 10% for each week past the due date.

Determination of Grades

| Assignment | Points | Percentage of Grade |
|--------------------------|-------------------|---------------------|
| Data Collection Timeline | 50 points | 20 % |
| Revised Chapter 1 and 2 | 50 points | 20 % |
| Revised Chapter 3 | 50 points | 20 % |
| Data Analysis | 75 points | 30 % |
| Final Presentation | 25 points | 10 % |
| Total | 250 points | 100 % |

A+ = 98 – 100%

B+ = 88 – 89%

C = less than 80%

A = 92 – 97%

B = 82 – 87%

A- = 90 – 91%

B- = 80 – 81%

Classroom Protocol

Professional demeanor is required of all class participants. Participants are expected to arrive to class on time and to stay until class is ended. Participants are expected to respect speakers and peers at all times. Participants are further expected to refrain from using cell phones in class and to refrain from using computers for topics other than those relating to coursework. The instructor reserves the right to modify a student’s final grade for unprofessional conduct. |

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>”

EDSE 231X / Educational Research: Design and Implementation, Fall, 2016

Course Schedule

| Week | Date | Topics, Readings, Assignments, Deadlines |
|------|----------|---|
| 1 | 8/24/16 | Syllabus - Candidacy forms |
| 2 | 8/31/16 | Getting Started on your data collection – Creating a timeline |
| 3 | 9/7/16 | Reviewing APA – understanding how to create APA tables and graphs |
| 4 | 9/14/16 | Single subject work group (only students conducting single subject studies need attend) <ul style="list-style-type: none"> • Getting started on the study • Training data collectors – calculating IOA • Revising chapter 3 |
| 5 | 9/21/16 | Survey work group (only students conducting survey studies need attend) <ul style="list-style-type: none"> • Getting started on the study • Approaching groups for surveys • Revising chapter 3 |
| 6 | 9/28/16 | Data collection and writing week - No class session Timeline due (Assignment 1) |
| 7 | 10/5/16 | Single subject work group (only students conducting single subject studies need attend) <ul style="list-style-type: none"> • Data analysis • Creating spreadsheets and graphs for data |
| 8 | 10/12/16 | Survey work group (only students conducting survey studies need attend) <ul style="list-style-type: none"> • Data analysis • Descriptive statistics and cross tabulations |
| 9 | 10/19/16 | Data collection and writing week - No class session Revised Chapter 3 Due (Assignment 2) |
| 10 | 10/26/16 | Single subject work group (only students conducting single subject studies need attend) <ul style="list-style-type: none"> • Data analysis • Analysis of means and PND |
| 11 | 11/2/16 | Survey work group (only students conducting survey studies need attend) <ul style="list-style-type: none"> • Data analysis • Statistical analysis – reliability |
| 12 | 11/9/16 | Writing Chapter 4 Results In class session Everyone |
| 13 | 11/16/16 | Data analysis and writing week - No class session |

| Week | Date | Topics, Readings, Assignments, Deadlines |
|-------------|-------------|--|
| | | Revised Chapter 1 and 2 Due (Assignment 3) |
| 14 | 11/30/16 | Data Analysis – Mandatory Individual Progress Meetings |
| 15 | 12/7/16 | Wrapping Up Data Analysis – Creating Presentation |
| Final Exam | 12/14/16 | 5:15 – 7:30 --- NOTE THIS IS A DIFFERENT TIME!!! Written Data Analysis Due (Assignment 4) Data Analysis Presentation (Assignment 5) |

**Instructor reserves the right to adjust course schedule as needed.
Updates will be announced in class and posted to CANVAS**