

Multivariate Analysis STAT 235

Spring 2026 Section 02 In Person 3 Unit(s) 01/22/2026 to 05/11/2026 Modified 12/01/2025

Course Description and Requisites

Multivariate techniques for analyzing social science data with emphasis on multiple regression, multivariate analysis of variance, factor analysis, discriminant analysis and canonical correlation.

Prerequisite(s): Instructor consent.

Grading: Letter Graded

Course Learning Outcomes (CLOs)

Program learning outcomes (PLOs) are skills and knowledge that students will have achieved upon completion of the MA in Research and Experimental Psychology degree. Each course in our curriculum contributes to one or more of these PLOs. The PLOs for the degree are:

1. Advanced Knowledge Base in Research and Experimental Psychology. Students completing the Research and Experimental Psychology MA program will be able to demonstrate advanced knowledge of the major theoretical perspectives and research methods across areas of experimental psychology (e.g., Developmental, Social, Cognitive, and Physiological).
2. Research Skills and Scholarship. Graduates of our program will possess an advanced level of competence in research methods, statistical techniques, and technical writing skills. Students completing the Research and Experimental Psychology MA program are required to complete a thesis. The thesis will demonstrate:
 - 2.1 creative problem-solving in the design and implementation of empirical research.
 - 2.2 project management skills in the implementation of empirical research.
 - 2.3 advanced competency in the statistical analysis and interpretation of empirical research findings.
 - 2.4 communication (oral and written) of research findings at a professional level.
3. Career Enhancement. Students completing the Research and Experimental Psychology MA program will achieve career enhancement through placement in a doctoral program or acceptance of a position requiring a master's in psychology in the public or private sector.

Program learning outcomes (PLOs) are skills and knowledge that students will have achieved upon completion of the MS in Industrial/Organization (I/O) Psychology degree. Each course in our curriculum contributes to one or more of these PLOs. The PLOs for the degree are:

1. Students of the program will acquire a base of knowledge about the principles of psychology as they are applied to industrial and organizational settings.
2. Students of the program will acquire a base of knowledge about the practice of I/O psychology by applying the concepts of I/O psychology to the functioning of organizations.

University Policies

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.