

# SJSU | DEPARTMENT OF MATHEMATICS AND STATISTICS

## M.S. STATISTICS

This program is designed for students who wish to become practicing statisticians in business, government or industry and has been approved by the Council of Graduate Schools (<http://www.sciencemasters.com/>) as one of only four Professional Science Master's programs in Statistics nationwide (and the only one west of the Mississippi). Students with a bachelor's degree in engineering, the sciences, economics, business, the social sciences or any other field which uses statistics are encouraged to apply for this program in order to learn advanced statistical techniques to apply in their fields. Students with a bachelor's degree in mathematics or statistics are welcome to apply for the program in order to advance their technical skills and learn applications in areas of interest. Students interested in eventually pursuing a PhD in statistics are encouraged to apply for the MA or MS Mathematics, Emphasis in Statistics. See <http://www.sjsu.edu/math/programs/graduate/>.



### Admission Requirements

1. Admission to the Graduate Division: <http://www.sjsu.edu/gape/>
2. International students must have achieved a score of at least 550 on the TOEFL exam (NO TOEFL waiver).
3. Calculus through multiple integration and partial differentiation, as usually gained through 3 semesters of calculus (e.g., Math 30, 31, and 32 at SJSU), each with a grade of at least B.
4. Linear Algebra (e.g., Math 129A at SJSU), with a grade of at least B.
5. A calculus-based introductory course in probability and statistics (e.g., Math 161A at SJSU) with a grade of at least B.
6. Letters of recommendation (2-3), sent directly to the Statistics Graduate Coordinator at the address below.

IF YOU DO NOT MEET THE ABOVE REQUIREMENTS:  
Students who meet the minimum requirements for admission to the Graduate Division but do not meet the admission requirements for this master's degree program may be admitted as Conditionally Classified students.

### Course Requirements

A total of 36 semester units of coursework are required for this degree

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|-------------------|--|
| Math 163.....     | Probability Theory                                     |
| Math 164.....     | Mathematical Statistics                                |
| Math 167.....     | Programming in SAS                                     |
| Math 203.....     | Applied Mathematics, Computation & Statistics Projects |
| or Math 298.....  | Special Study  |
| or Math 298l..... | Statistics Internship                                  |
| Math 261A.....    | Regression Theory and Methods                          |
| Math 261B.....    | Design and Analysis of Experiments                     |
| Math 267.....     | Computational Statistics                               |
| Math 269.....     | Statistical Consulting                                 |
| Electives .....   | 12 units (usually four courses)                        |

### Course Notes

1. Elective courses, in advanced statistical methods or in a content area of the student's area of interest, must be approved in advance of registration by the Statistics Graduate

Coordinator. See <http://www.sjsu.edu/statistics/electives> for a listing of suggested electives.

2. Students who enter the program having already had courses equivalent in level and content to any of those required for the degree will be allowed to substitute appropriate alternative courses, upon advanced approval by the Statistics Graduate Coordinator.
3. The student must obtain a grade of B or better in each of Math 163 and Math 164, and meet all other University requirements, including Competency in Written English, before being advanced to candidacy. See [http://www.sjsu.edu/gape/current\\_students/completing\\_masters/index.html](http://www.sjsu.edu/gape/current_students/completing_masters/index.html)

### Applying for Graduation

With the aid of the Statistics Graduate coordinator, students must complete and file the Petition for Advancement to Graduate Candidacy form with Graduate Studies before the posted deadline (usually 8 months before the proposed graduation date). Students must file the application for Award of Master's degree form before the posted deadline (usually 3 months before the proposed graduation date). The forms, and the precise deadlines, are available at [http://www.sjsu.edu/gape/current\\_students](http://www.sjsu.edu/gape/current_students).

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Online SJSU Catalog: <http://info.sjsu.edu/home/catalog.html>