



South Dakota State University

Department of Mathematics and Statistics
Box 2220, SDSU
Brookings, SD 57007-1297
Phone: 605-688-6196
Fax: 605-688-6814
<http://mathstat.sdstate.edu/>

SDSU Math/Stat Department Undergraduate Statistics Concentration

Students interested in a career in statistics are strongly encouraged to pursue the following program.

1. Core MATH/STAT coursework (required of all Mathematics Majors)

MATH 123 Calculus I	MATH 198 The Mathematics Profession	MATH 253 Logic and Sets
MATH 125 Calculus II	MATH 215 Matrix Algebra	MATH 413 Abstract Algebra I
MATH 225 Calculus III	MATH 315 Linear Algebra	MATH 425 Real Analysis I
MATH 321 Differential Equations	STAT 381 Intro to Probability and Statistics	MATH 401 Senior Capstone

2. Recommended MATH/STAT coursework

- **Mathematics**

- MATH 441 Applied Probability Theory
- MATH 459 Bioinformatics (if you're interested in biostatistics)
- MATH 492 Data Mining

- **Statistics**

- STAT 410 Programming Using SAS
- STAT 412 Programming Using SAS II
- STAT 445 Nonparametric Statistics
- STAT 460 Time Series Analysis
- STAT 482 Statistics for Physical Science
- STAT 486 Design of Surveys

- **Additional Informatics and Data Mining courses are under development. Watch for announcements.**

3. Other recommendations

- Consider statistics -related internships or work experience.
- Consider a statistics -related Senior Research Project.

Special Note on Five Year BS Math/MS Stat Option: The combination of a BS in Mathematics and an MS in Statistics is extremely valuable professionally. It is possible to complete both programs in five years, but the resulting program is very rigorous. If you're interested in pursuing this option, it's best to start planning early, preferably before the beginning of your junior year. Contact the Math/Stat Department Head for more details.