

Bachelor of Science in Statistics

55 Units: Total Units Required for the Major

46 units: Required core courses

Course	Description	Units	Offered
MATH 209	Mathematical Computing ¹	3	Fall
MATH 226	Calculus I	4	Fall, Spring
MATH 227	Calculus II	4	Fall, Spring
MATH 228	Calculus III	4	Fall, Spring
MATH 301	Exploration and Proof (GWAR)	3	Fall, Spring
MATH 325	Linear Algebra	4	Fall, Spring
MATH 338	Introduction to SAS	3	Spring
MATH 440	Probability and Statistics I	3	Fall, Spring
MATH 441	Probability and Statistics II	3	Fall, Spring
MATH 424	Introduction to Linear Models	3	Spring
MATH 442	Probability Models	3	Spring
MATH 447	Design and Analysis of Experiments	3	Fall
MATH 448	Introduction to Statistical Learning & Data Mining	3	Fall
MATH 449	Categorical Data Analysis	3	Spring
Total Core		46	
One area of Guided Elective(Business(DS or ISYS), Economics, or Science)		9	
Total Units for the major		55	
¹ Students may substitute CSC 215 or CSC 309 for Math 209			

9 units: Guided Electives in Science

3 upper-division or graduate courses with advisor's approval

Course	Description	Units	Offered
MATH 370	Real Analysis	3	Fall, Spring
MATH 376	Ordinary Differential Equations	3	Fall
MATH 400	Numerical Analysis	3	Spring
MATH 425	Applied and Computational Linear Algebra	3	Spring
MATH 430	Mathematics of Optimization	3	Every Other Fall
MATH 443	Introduction to Time Series Analysis	3	Spring
MATH 460	Mathematical Modeling	3	Fall

9 units: Guided Electives in Economics

3 upper-division or graduate courses with advisor's approval

Course	Description	Units	Offered
ECON 301	Intermediate Microeconomic Theory	3	Fall, Spring
ECON 302	Intermediate Macroeconomic Theory	3	Fall, Spring
ECON 312	Introduction to Econometrics	3	Fall
ECON 715	Mathematical Economics	3	Fall
ECON 731	Econometric Theory and Applications	3	Fall
ECON 825	Applied Time Series Econometrics	3	Spring

9 units: Guided Electives in Business – Decision Sciences

3 upper-division or graduate courses with advisor's approval

Course	Description	Units	Offered
DS 311	Technologies in Data Analytics	3	Spring
DS 408	Computer Simulation	3	Fall
DS 412	Operations Management	3	Fall, Spring
DS 604	Applied Business Forecasting	3	Fall, Spring
DS 624	Quality Management	3	Fall, Spring

9 units: Guided Electives in Business – Information Systems

3 upper-division or graduate courses with advisor's approval

Course	Description	Units	Offered
ISYS 363	Information Systems for Management	3	
ISYS 463	Information Systems Analysis and Design	3	
ISYS 569	Information Systems for Business Process Management	3	
ISYS 650	Business Intelligence	3	

If you have any questions regarding the Statistics BS, please contact [Dr. Tao He](#) or [Dr. Mohammad Kafai](#).