Statistics and Analytics (STAN) degree requirements – Page 1 of 2

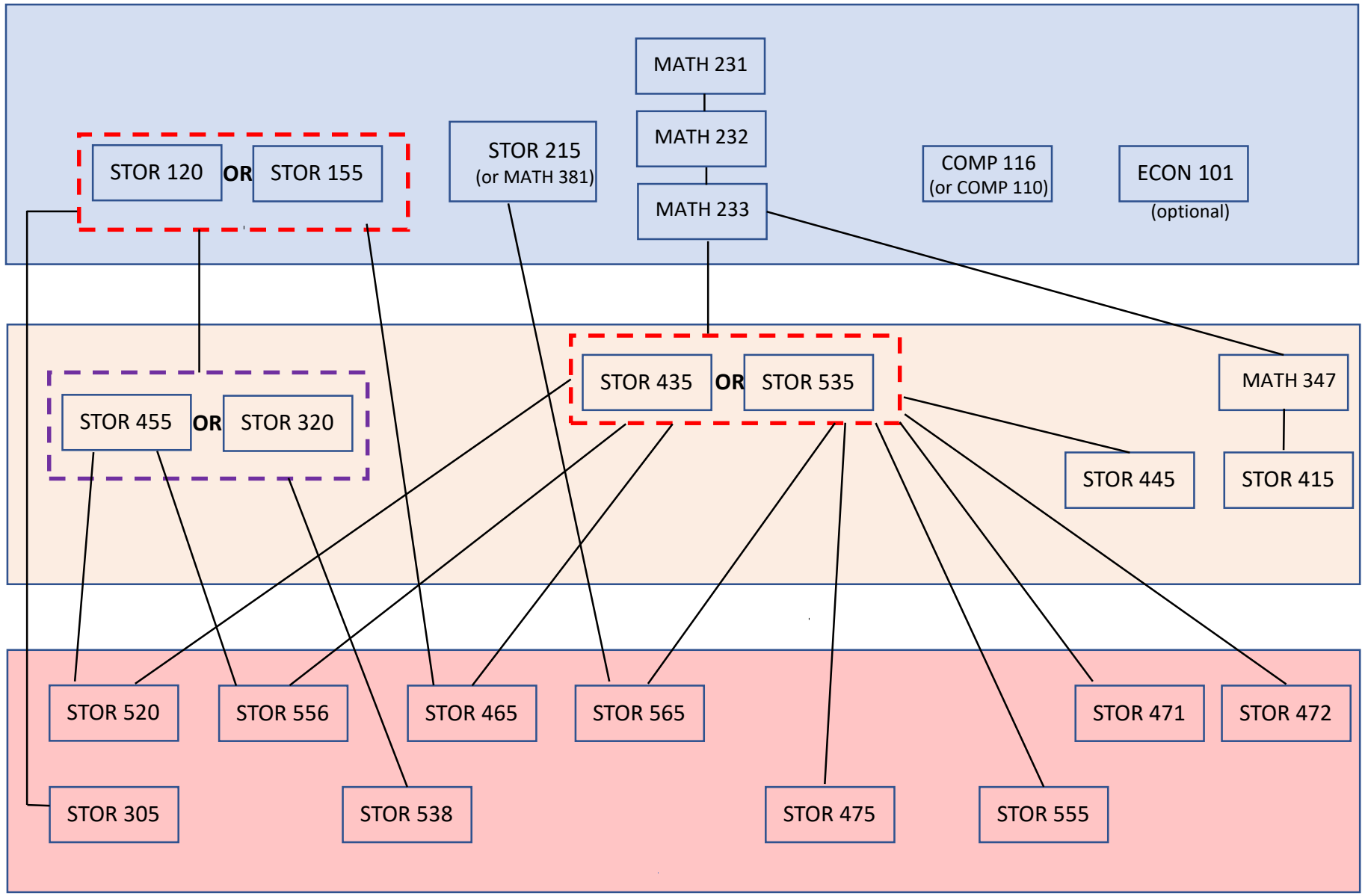
Requirements for major

Required 1st and 2nd year courses

Required upper level courses

Group A courses (at least three required)

Continues next page



- Students must choose two more courses from Group A or Group B (see next page).
- Students are allowed to take both STOR 320 and STOR 455 and use one of them as a Group A elective.
- Students cannot take both STOR 320 and STOR 520 for credit. Students cannot take both STOR 435 and STOR 535 for credit.

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Group B courses
(at least two more from this list or Group A)

BIOS 511, BIOS 664
BUSI 403, BUSI 408, BUSI 410, BUSI 532, BUSI 533
COMP 401, COMP 410, COMP 521
ECON 410, ECON 420, ECON 511
INLS 523
MATH 383, MATH 521, MATH 522, MATH 523, MATH 524, MATH 548, MATH 566

Requirements for minor

STOR 120 or STOR 155, STOR 215, and at least three courses from required upper level STOR courses or Group A.

COURSE TITLES

- STOR 120: Foundations of Data Science, STOR 155: Introduction to Data Analysis, STOR 215: Foundations of Decision Sciences, STOR 305: Introduction to Decision Analytics, STOR 320: Introduction to Data Science, STOR 415: Introduction to Optimization, STOR 435: Introduction to Probability, STOR 445: Stochastic Modeling, STOR 455: Methods of Data Analysis, STOR 465: Simulation for Analytics, STOR 471: Long Term Actuarial Models, STOR 472: Short Term Actuarial Models, STOR 475: Health Care Risk Analytics, STOR 520: Statistical Computing for Data Science, STOR 535: Probability for Data Science, STOR 538: Sports Analytics, STOR 555: Mathematical Statistics, STOR 556: Advanced Methods of Data Analysis, STOR 565: Machine Learning.
- MATH 231: Calculus of Functions of One Variable I, MATH 232: Calculus of Functions of One Variable II, MATH 233: Calculus of Functions of Several Variables, MATH 347: Linear Algebra for Applications, MATH 383: First Course in Differential Equations, MATH 521: Advanced Calculus I, MATH 522: Advanced Calculus II, MATH 523: Functions of a Complex Variable with Applications, MATH 524: Elementary Differential Equations, MATH 548: Combinatorial Mathematics, MATH 566: Introduction to Numerical Analysis.
- COMP 110: Introduction to Programming, COMP 116: Introduction to Scientific Programming, COMP 401: Foundation of Programming, COMP 410: Data Structures, COMP 521: Files and Databases.
- ECON 101: Introduction to Economics, ECON 410: Intermediate Theory: Price and Distribution, ECON 420: Intermediate Theory: Money, Income, and Employment, ECON 511: Advanced Game Theory in Economics.
- BIOS 511: Introduction to Statistical Computing and Data Management, BIOS 664: Sample Survey Methodology.
- BUSI 403: Operations Management, BUSI 408: Corporate Finance, BUSI 410: Business Analytics, BUSI 532: Service Operations, BUSI 533: Supply Chain Management.
- INLS 523: Introduction to Database Concepts and Applications.