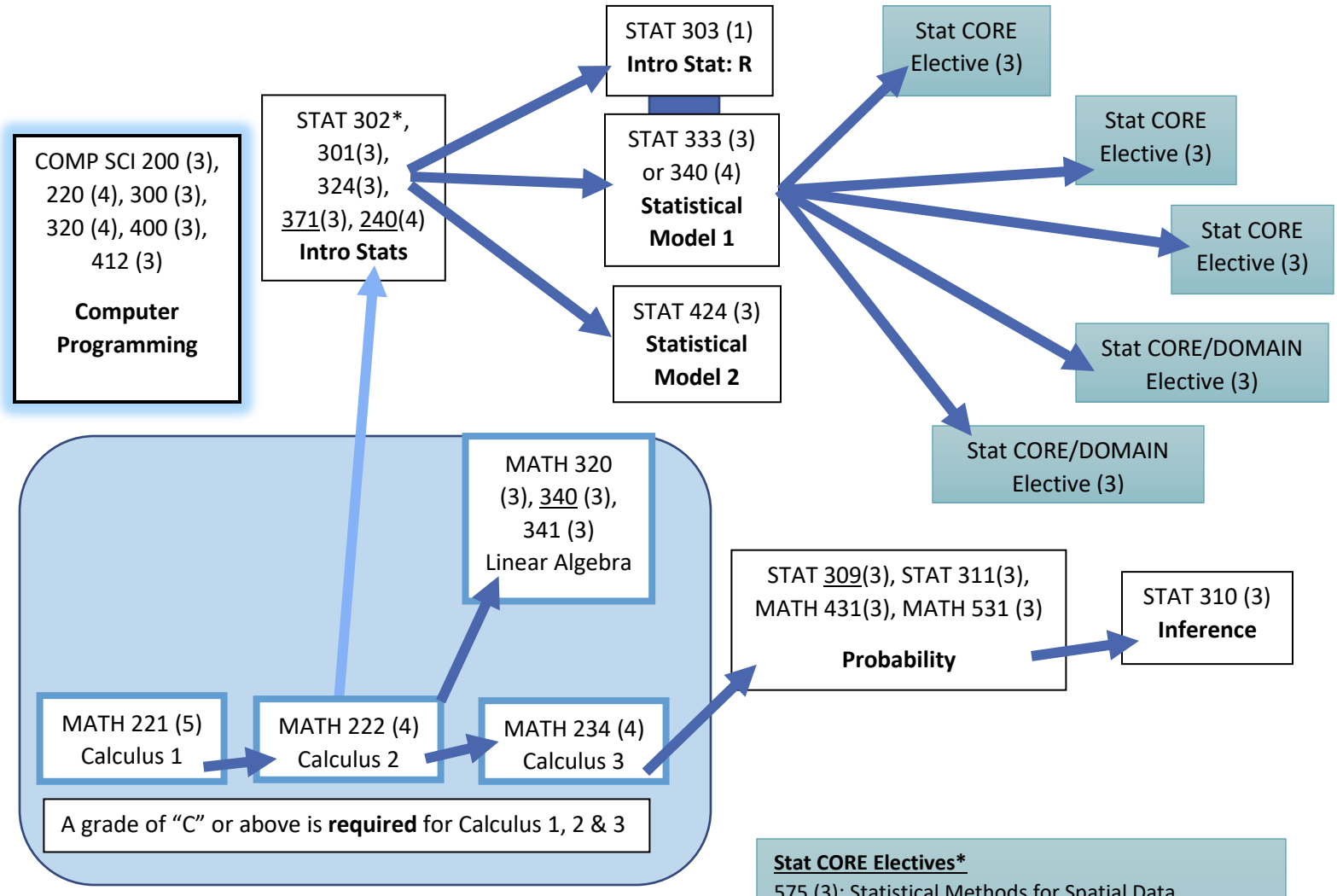
Statistics Major Requirements (2019-2020 Flow chart)



Stat CORE Electives*

304 (1): R for Statistics 2
305 (1): R for Statistics 3
327 (1): Learning a Statistical Language
349 (3): Introduction to Time Series
351 (3): Introductory Nonparametric Statistics
360 (1-3): Topics in Statistics Study Abroad
405 (3): Data Science Computing Project
411 (3): An Introduction to Sample Survey Theory & Methods
421 (3): Applied Categorical Data Analysis
433 (3): Data Science with R
436 (3): Statistical Data Visualization
443 (3): Classification & Regression Trees
451 (3): Marching Learning & Statistical Pattern Classification
453 (3): Intro to Deep Learning & Generative Models
456 (3): Applied Multivariate Analysis
461 (3): Financial Statistics
471 (3): Intro to Computational Statistics
479 (1-3): Special Topics in Statistics

Stat CORE Electives*

575 (3): Statistical Methods for Spatial Data
632 (3): Intro to Stochastic Processes
641 (3): Statistical Methods for Clinical Trials
642 (3): Statistical Methods for Epidemiology
679 (1-3): Special Topics in Statistics

DOMAIN Electives (up to 6 credits)*

ACT SCI (3): Loss Models II
ACT SCI 654 (2-3): Regression & Time Series
CS/ECE/ME 532 (3): Matrix Methods in ML
CS/ECE 561(3) Probability and Information Theory in ML
ECON 570 (3): Fundamentals of Data Analytics for Economists
GEN BUS 656(2-3): Machine Learning for Business Analytics
GEOG 560 (3): Advanced Quantitative Methods
I SY E 521(3); ML in Action for Industrial Engineers
MATH 635(3); An Intro to Brownian Motion & Stochastic Calculus
SOC 362(4): Statistics for Sociologists 3
SOC 375 (3): Intro to Mathematical Sociology
STAT/CS/MATH 475 (3): Intro to Combinatorics
STAT/CS/ ISY E/MATH 525(3): Linear Optimization

* See The Guide for full list of Electives

Revised May 2023 (updating additional electives)