Statistics-Computer Science Major

Prerequisites: 4 courses

1) Calc 1, Calc 2, and Calc 3
2) Linear Algebra (COMS, Math, or Applied Math)
3) STAT 1001, 1111 or 1211

Core: 9 courses (STAT and COMS)

STAT:
1) Probability: STAT 3105 or 4105
2) Statistical Inference: STAT 3107 or 4107
3) Linear Regression Models: W3315 or 4315
4) Statistical Machine Learning STAT W4400 or Machine Learning COMS W4771

COMS:
1) Introduction to CS 1004/1005/1006/1007
2) Data Structures: 3134/3136/3137
3) Discrete Math: 3203
4) Scientific Computing COMS 3210
5) Analysis of Algorithms 4231

Electives: 4 Courses

STAT: 2 from the following
1) Applied Data Mining 3026
2) Data Mining 4240
3) Statistical Computing in SAS 4199
4) Elementary Stochastic Processes 4606
5) Applied Data Science 4249

COMS: 2 from the following
1) Computer Science Theory 3261
2) Introduction to Computational Complexity 4236
3) Introduction to Computational Learning Theory 4252
4) Databases 4111
5) Parallel Programming 4130
6) Any 47xx course (these are our AI/ML oriented courses)