Mathematics & Statistics Department Statistics/Data Science Specialization Proposal

Name: Data Science and Statistics

17.5 Courses Total

0	MAT 099	Orientation to Mathematics and Statistics
1	MAT 128	Calculus B
1	MAT 200	Proof Writing through Discrete Mathematics
1	MAT 205	Linear Algebra: Theory and Applications
1	MAT 229	Calculus C
0.5	MAT 275	Sophomore Seminar
1	MAT 316	Probability
1	STA 215	Statistical Inference & Probability
1	STA 305	Regression Analysis
1	STA 410	Mathematical Statistics
1	STA 498	Capstone

Options
1   Data Science Option from STA 306 or STA 307 or STA 404
1   Option from STA3xx or STA4xx
3   Options from MAT3xx, MAT4xx, STA3xx, or STA4xx (one non-MAT/STA course from the approved list in PAWS may be counted towards this 3 unit requirement)

Correlates
1   CSC 220   Computer Science I : Computational Problem Solving
1   Science Lab Course at 2xx level or above
1   Science Course at 2xx level or above, or CSC 230 (Computer Science II: Data Structures), or MAT 341 (Computational Mathematics)*

*MAT 341 can be used to satisfy either the correlate requirement or as one of the 3 option courses, but not both.

Additionally, the following are suggested as courses for those seeking Data Science options specifically:
STA 306, STA 307, STA 404, MAT 341, CSC 315, CSC 335 (both CSC courses require CSC271 as a prerequisite)