Applied Mathematics Specialization Checklist

(for students declaring the specialization on or after Fall 2018)

. Required Core Courses.
MAT 127 Calculus A
MAT 128 Calculus B
MAT 229 Multivariable Calculus
MAT 200 Proof Writing Through Discrete Mathematics
MAT 205 Linear Algebra
MAT275 Sophomore Seminar
MAT 310 Real Analysis
MAT 326 Differential Equations
STA 215 Statistical Inference
MAT 498 Capstone (must be the Applied Mathematics section of Capstone)
(Capstone Prerequisite: attendance to 4 seminars in junior/senior year)
 MAT/STA Options At most two of the six courses may have an STA prefix.
At most one of the six courses may have a non-MAT or STA prefix.
 Students can take at most one course unit of independent study, guided study, or independent research as one of the six course units (MAT/STA 39x/49x). However, this will not count as an applied math elective course
400 level course from the Applied Math Options list
_300 or 400 level course from the Applied Math Options list
300 or 400 level course from the Applied Math Options list
Any course at the 300 or 400 level with MAT or STA prefix
Any course at the 300 or 400 level with MAT or STA prefix
Any course at the 300 or 400 level with MAT prefix, OR BIO 471/CSC 471, PHY 401, CSC 335, or CSC 445

3.	Choose one of the following options for the computer science correlate:
	CSC 220 Computer Science I AND CSC 230 Computer Science II
	CSC 250 Accelerated Computer Science I and II
	CSC 220 Computer Science I AND MAT 341 Computational Mathematics
	(for any option: grade of C- or better in CSC220)
4.	Choose one of the following options for the lab science correlate:
	BIO 201 Foundations of Biological Inquiry
	CHE 201 General Chemistry I
	PHY 201 General Physics I
	* Or any lab course in Biology, Chemistry, or Physics numbered 200 or higher approved by the department
	Applied Math Options List:
MA	T 315 Topics in Linear Algebra
MA	T 316 Probability
MA	T 317 Linear Programming
MA	T 330 Mathematical Biology
MA	T 331 Numerical Analysis
MA	T 341 Computational Mathematics
MA	T 426 Partial Differential Equations
MA	T 4xx Seminar in Dynamical Systems
MA	T 454 Seminar in Applied Mathematics

STA 318 Operations Research