2018-2019

COMPUTATIONAL MATHEMATICS MAJOR, B.A.

Mathematical Department; School of Science, Health & Mathematics

Computational Mathematics involves an emphasis on applied mathematics with the computational and computer programming skills necessary to solve practical problems. These skills are in high demand in the private sector and in government employment. Study in computational science prepares students to enter a career in industry, government, or business immediately upon graduation or to enter graduate school in computational science, or related areas of applied mathematics such as statistics, management science, operations research, actuarial science or computational biology. The major is designed to allow the student flexibility in choosing a minor area of study as an application of the computational and mathematical skills learned in Department courses.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

MAJOR REQUIREMENTS (55)

_4	CSC	121	Data Science I Lab Data Science II Lab
_4	CSC	122	
4433333333	MAT MAT MAT MAT MAT MAT MAT MAT MAT MAT	181 182 183 241 252 271 281 351 352 442 475 482	Calculus I Lab Calculus II Lab Calculus III Lab Logic & Sets Diff Equations/Modeling Linear Algebra Probability Applied Mathematics I Applied Mathematics II Numerical Analysis Senior Seminar Complex Analysis
5	PHY	211	Gen Physics I Lab Recitation
5	PHY	212	Gen Physics II Lab Recitation

PLUS FOUNDATIONAL REQUIREMENTS (39)

(3 hours Math and 4 hours Science satisfied by required major courses.)

Plus electives needed for the 124 hour degree requirement (30)