

APPLIED MATHEMATICS SPECIALIZATION

This specialization builds on the core to provide a deeper training in the fundamental areas of applied mathematics. It provides an excellent preparation for graduate work in applied mathematics, but is also a good choice for the student who is interested in pursuing mathematics in the applied direction more deeply than just the core.

Year 2 (30 units total)

Core Requirements	Math 2X03 - Advanced Calculus I
	Math 2XX3 – Advanced Calculus II
	Math 2C03 – Differential Equations
	Math 2R03 – Linear Algebra II
	Stats 2D03 – Probability Theory
Specialization	Math 2S03 – Linear Algebra II OR Math 2T03 – Numerical Analysis I
Electives	12 units

Year 3 (30 units total)

Core Requirements	Math 3A03 – Real Analysis I
	Math 3X03 – Complex Analysis I
	9 units level II, III, IV Mathematics and Statistics, at least 3 at level III, IV
Specialization	6 units from Math 3F03 – Advanced Differential Equations, or Math 3FF3 – Partial Differential Equations I, or Math 3Q03 – Numerical Analysis II
Electives	9 units

Year 4 (30 units total)

Core Requirements	15 units from Levels III, IV Mathematics and Statistics
Specialization	Math 4A03 – Real Analysis II
	3 units from Math 4G03 – Dynamical Systems, or Math 4V03 – Applied Mathematical Analysis, or Math 4X03 – Complex Analysis II
Electives	9 units