

MATHEMATICS SPECIALIZATION

This specialization builds on the core to provide a deeper training in the fundamental areas of mathematics. It provides an excellent preparation for graduate work in mathematics, but is also a good choice for the student who is interested in pursuing mathematics 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 III
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	Math 3E03 – Algebra I
	Math 3EE3 – Algebra 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 4B03 – Calculus on Manifolds, or Math 4E03 – Algebra III, or Math 4G03 – Dynamical Systems, or Math 4X03 – Complex Analysis II
Electives	9 units