Masters Program: Recommended Course Sequences

Undergraduate Prerequisites to Acceptance to the Masters Program

- MATH 351 Real Analysis
- MATH 352 Probability & Statistics

Masters Courses

- MATH 510 Probability Methods & Measure Theory
- MATH 555 Actuarial Sciences
- MATH 588 Stochastic Analysis
- MATH 587 Markov Chains & Markov Processes
- PHYS 510 Advanced Image Analysis Techniques
- COMP 569 Artificial Intelligence
- MATH/COMP 581 Math. Methods in Artificial Intelligence
- MATH 513 Advanced Algebra
- MATH 582 Number Theory & Cryptography
- MATH 584 Algebraic Geometry
- MATH 511 Functional Analysis
- MATH 565 Research Methods in Math. Education
- PHYS 546 Advanced Pattern Recognition
- MATH 570 Combinatorics
- COMP 510 Algorithms
- MATH 584 Algebraic Geometry

Additional Recommended Undergraduate Courses

- MATH 240 Linear Algebra
- MATH 300 Discrete Mathematics
- MATH 451 Complex Analysis
- MATH 393 Abstract Algebra

Comfort/ Skills in Programming

- MATH 565: any stats course will do
- COMP 510: MATH 354, Analysis of Algorithms, also recommended
- If missing a prerequisite but interested in course, consult with instructor as early as possible.

• MATH 599, Graduate Seminar, may be taken upon acceptance to the program.
• MATH 597 (Thesis) and 598 (Project) may be taken upon identification of an advisor and topic.
• MATH 590 (Special Topics): prerequisites depend upon topic.