Sequences and Prerequisite Flowchart
of Graduate Courses

Algebra Core Sequence

- MAS 5311 Algebra I
- Mas 5312 Algebra II
- MAS 5107 Adv. Lin. Alg.

Analysis Core Sequence

- MAA 5306 Intro to Real Analy.
- MAA 5307 Real Analysis I
- MAA 6616 Real Analysis II

Topology Core Sequence

- MTG 5316 Topology I
- MTG 5317 Topology II

Mathematical Statistics Core Sequence

- STA 5326 Math. Stat. I
- STA 6326 Math. Stat. II

Applied Math Elective Sequence (One from Each Group)

(A)
- MAP 5407 Appl. Math.
- MAP 5345 Appl. PDE
- MAP 6356 PDE

(B)
- MAA 5405 Appl. C. Analy.
- MAD 5XXX (4401) Numerical Analysis
- MAP 6336 Th. ODE

(C)
- MAP 6205 Control & Opt.
- MAP 6XXX Dyn. Sys. II
- MAP 5XXX Dyn. Sys. I

PDE Elective Sequence

ODE Elective Sequence

Dynamical Systems Elective Sequence

Probability Elective Sequence

- STA 5446 Probability I
- STA 6447 Probability II

Computational Statistics Elective Sequence

- STA 5166 Stat. Methods I
- STA 6167 Stat. Methods II

or

Stochastic Process and Time Series Analysis Elective Sequence

- STA 6206 Stoch. Process
- STA 6876 Time Ser. Analy.

Combinatorics Elective Sequence

- MAD 6206 Combinatorics I
- MAD 6207 Combinatorics II

Complex Analysis Elective Sequence

- MAA 6406 C. Analy. I
- MAA 6407 C. Analy. II

Functional Analysis Elective Sequence

- MAA 6506 Func. Analy.I
- MAA 6507 Func. Analy. II

Approx. Theory & Harmonic Analy. Elective Sequence

- MAA 5XXX Approx. Theory
- MAA 5XXX Harmonic Analy.

Linear Statistics Models and Multivariate Analysis Elective Sequence

- STA 6208 Lin. Stat. Mod.
- STA 6746 Multivar. Analy.

Theory of Computing Elective Sequence

- MHF 5306 Math & Comp. I
- MHF 6307 **Math & Comp. II**
- MAD 6616 Automata Thy

Foundations Elective Sequence

Nonlinear Analysis Elective Sequence

- MAP 5316 Non−lin. Analy. I
- MAP 6317 (5317) Non−lin. Analy. II

Orthogonal Poly. & Special Functions Elecitive Sequence

- MAT 5932 Topics in Analysis I
- MAT 5932 Topics in Analysis. II

Courses that are not part of a sequence are not listed.