

Some important prerequisites...

Prerequisite	Required for
Algebraic Number Theory (W1)	The Class Number (W2)
Linear Algebra (1/2) (W1)	Flag Algebras (W2)
	Topological Tverberg's theorem (W2)
	A Computational Approach to Modular Forms (W2)
	The outer automorphism of S_6 (W2)
	Linear Programs & Convex Optimization (W3)
	Representation Theory (1/2) (W3)
	Spectral Graph Theory (W3)
	Machine Learning (No Neural Nets) (W4)
	Cohomology via Sheaves (W4)
	Rational Points on Elliptic Curves (W4)
Group Theory (W1)	The outer automorphism of S_6 (W2)
	Axiomatic Music Theory (W3)
	Representation Theory (1/2) (W3)
	Galois Theory (W3)
Stupid Games on Uncountable Sets (W1)	The Continuum Hypothesis (1/2) (W3)
Intro Graph Theory (W1)	Flag Algebras (W2)
	Conflict-Free Graph Coloring (W3)
	Max Flow Min Cut (W3)
	Spectral Graph Theory (W3)
Intro Ring Theory (W2)	The Class Number (W2)
	Commutative Algebra (1/2) (W3)
	Galois Theory (W3)
	Algebraic Geometry (2/2) (W4)
Metric Space Topology (W2)	Systems and Signals Analysis (W3)
	Convergence Issues; or: Monsters in Real Analysis (W3)
	Differential Topology (W4)
	The Fundamental Group (W4)
Representation Theory (1/2) (W3)	Representation Theory (2/2) (W4)

Note: When subject A is listed as a prerequisite for course B, this indicates that the Mathcamp course on subject A is *sufficient* as a prerequisite for B.

Often, the Mathcamp class on A covers a lot more than is necessary for B. If you already know some of subject A, consult the specific prerequisites in the class description for B or talk to the teacher of B to find out if what you know is enough. You can also talk to the teacher of A to find out when she/he plans to cover the parts that you already know.

Have a class you want to take? Here are the prerequisites!

Class	Requires
Flag Algebras (W2)	Linear Algebra (1/2) (W1)
	Intro Graph Theory (W1)
The Class Number (W2)	Algebraic Number Theory (W1)
	Intro Ring Theory (W2)
Topological Tverberg's theorem (W2)	Linear Algebra (1/2) (W1)
A Computational Approach to Modular Forms (W2)	Linear Algebra (1/2) (W1)
The outer automorphism of S_6 (W2)	Linear Algebra (1/2) (W1)
	Group Theory (W1)
Linear Programs & Convex Optimization (W3)	Linear Algebra (1/2) (W1)
Systems and Signals Analysis (W3)	Metric Space Topology (W2)
Axiomatic Music Theory (W3)	Group Theory (W1)
Commutative Algebra (1/2) (W3)	Intro Ring Theory (W2)
Convergence Issues; or: Monsters in Real Analysis (W3)	Metric Space Topology (W2)
The Continuum Hypothesis (1/2) (W3)	Stupid Games on Uncountable Sets (W1)
Conflict-Free Graph Coloring (W3)	Intro Graph Theory (W1)
Representation Theory (1/2) (W3)	Linear Algebra (1/2) (W1)
	Group Theory (W1)
Galois Theory (W3)	Group Theory (W1)
	Intro Ring Theory (W2)
Max Flow Min Cut (W3)	Intro Graph Theory (W1)
Spectral Graph Theory (W3)	Linear Algebra (1/2) (W1)
	Intro Graph Theory (W1)
Differential Topology (W4)	Metric Space Topology (W2)
Representation Theory (2/2) (W4)	Representation Theory (1/2) (W3)
The Fundamental Group (W4)	Metric Space Topology (W2)
Algebraic Geometry (2/2) (W4)	Intro Ring Theory (W2)
Machine Learning (No Neural Nets) (W4)	Linear Algebra (1/2) (W1)
Cohomology via Sheaves (W4)	Linear Algebra (1/2) (W1)
Rational Points on Elliptic Curves (W4)	Linear Algebra (1/2) (W1)

(Also see other side!)