Some important prerequisites...

Prerequisite	**Required for**
An inquiry-based approach to group theory (W1)	Combinatorics of tableaux (W2)
	Representation theory (W3–4)
	Classifying complex semisimple Lie algebras (W3)
	So you like them triangles? (W4)
Introduction to graph theory (W1)	Graphs on surfaces (W2)
	Ramanujan graphs and number theory (W2)
	Conflict-free graph coloring (W2)
	Spectral graph theory (W3)
	Brooks' theorem blues (W4)
	Extremal graph theory (W4)
Introduction to linear algebra (W1)	Combinatorics of tableaux (W2)
	Spectral graph theory (W3)
	Representation theory (W3–4)
	Classifying complex semisimple Lie algebras (W3)
	So you like them triangles? (W4)
	Solving equations with origami (W4)
	Functions you can't integrate (W4)
The bell curve (W1) **or** Causal inference (W2)	Information theory (W3)
Introduction to analysis (W1)	Hilbert's space-filling curve (W2)
	Weierstrass approximation (W2)
	Cantor, Fourier, and the first uncountable ordinal (W2)
	Bairely complete (W3)
Introduction to number theory (W2)	Congruences of Bernoulli numbers and zeta values (W3)
	(Relatively) prime complex numbers (W4)
	Fair squares (mod p) (W4)
Clopen for business: an inquiry-based approach to point-set topology (W2)	Classifying complex semisimple Lie algebras (W3)
	So you like them triangles? (W4)
Introduction to ring theory (W2)	(Relatively) prime complex numbers (W4)
	Functions you can't integrate (W4)
Fourier analysis (W3)	Uncertainty principle (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 they plan to cover the parts that you already know.

(Also see other side!)

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

Class	Requires
Combinatorics of tableaux (W2)	An inquiry-based approach to group theory (W1)
	Introduction to linear algebra (W1)
Graphs on surfaces (W2)	Introduction to graph theory (W1)
Hilbert's space-filling curve (W2)	Introduction to analysis (W1)
Ramanujan graphs and number theory (W2)	Introduction to graph theory (W1)
Weierstrass approximation (W2)	Introduction to analysis (W1)
Conflict-free graph coloring (W2)	Introduction to graph theory (W1)
Cantor, Fourier, and the first uncountable ordinal (W2)	Introduction to analysis (W1)
Spectral graph theory (W3)	Introduction to graph theory (W1)
	Introduction to linear algebra (W1)
Bairely complete (W3)	Introduction to analysis (W1)
Congruences of Bernoulli numbers and zeta values (W3)	Introduction to number theory (W2)
Representation theory (W3–4)	An inquiry-based approach to group theory (W1)
	Introduction to linear algebra (W1)
Classifying complex semisimple Lie algebras (W3)	An inquiry-based approach to group theory (W1)
	Introduction to linear algebra (W1)
	Clopen for business: an inquiry-based approach to point-set topology (W2)
Information theory (W3)	The bell curve (W1) **or** Causal inference (W2)
(Relatively) prime complex numbers (W4)	Introduction to number theory (W2)
	Introduction to ring theory (W2)
Uncertainty principle (W4)	Fourier analysis (W3)
So you like them triangles? (W4)	An inquiry-based approach to group theory (W1)
	Introduction to linear algebra (W1)
	Clopen for business: an inquiry-based approach to point-set topology (W2)
Solving equations with origami (W4)	Introduction to linear algebra (W1)
Brooks' theorem blues (W4)	Introduction to graph theory (W1)
Functions you can't integrate (W4)	Introduction to linear algebra (W1)
	Introduction to ring theory (W2)
Fair squares (mod p) (W4)	Introduction to number theory (W2)
Extremal graph theory (W4)	Introduction to graph theory (W1)

(Also see other side!)