Some important prerequisites...

Prerequisite	Required for
Introduction to number theory (W1)	2-adic computer science (W3)
	The distribution of prime numbers (W4)
	The abc's of polynomialand (W4)
Introduction to graph theory (W1)	Extremal graph theory (W2)
	The Ra(n)do(m) Graph (W2)
	Szemerédi's {theorem, regularity lemma} (W3)
	Problem solving: graph theory (W3)
	Baire necessities for Banach–Tarski (W4)
Introduction to linear algebra (W1)	Quantum computation (W2)
	Teichmüller theory of the torus (W2)
	Schubert calculus (W3)
	Representation theory (week 1) (W3)
	The 17 wallpaper patterns (W3)
	Machine learning (NOT neural networks) (W3)
	Algebraic solutions to Painlevé VI (W4)
	Problem solving: cheating in geometry (W4)
	High-dimensional potatoes (W4)
	Algebraic topology: homology (W4)
	Finite fields (W4)
	Representation theory (week 2) (W4)
Introduction to real analysis: epsilons and deltas (W1)	Cantor before set theory (W4)
Introduction to group theory (W1)	Ring theory (W2)
	Bonus group theory part 2 (W2)
	Grammatical group generation (W2)
	Representation theory (week 1) (W3)
	The 17 wallpaper patterns (W3)
	Commutative algebra and algebraic geometry (W3)
	Infinite groups are weird (W3)
	Algebraic solutions to Painlevé VI (W4)
	Algebraic topology: homology (W4)
	Representation theory (week 2) (W4)
	Baire necessities for Banach–Tarski (W4)
	Introduction to Galois theory (W4)
Ring theory (W2)	Commutative algebra and algebraic geometry (W3)
	A curious connection between p-adic distances and triangulations of a square (W4)
	Finite fields (W4)
	Introduction to Galois theory (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
Ring theory (W2)	Introduction to group theory (W1)
Extremal graph theory (W2)	Introduction to graph theory (W1)
Quantum computation (W2)	Introduction to linear algebra (W1)
Bonus group theory part 2 (W2)	Introduction to group theory (W1)
The Ra(n)do(m) Graph (W2)	Introduction to graph theory (W1)
Teichmüller theory of the torus (W2)	Introduction to linear algebra (W1)
Grammatical group generation (W2)	Introduction to group theory (W1)
2-adic computer science (W3)	Introduction to number theory (W1)
Schubert calculus (W3)	Introduction to linear algebra (W1)
Representation theory (week 1) (W3)	Introduction to linear algebra (W1)
	Introduction to group theory (W1)
Szemerédi's {theorem, regularity lemma} (W3)	Introduction to graph theory (W1)
The 17 wallpaper patterns (W3)	Introduction to linear algebra (W1)
	Introduction to group theory (W1)
Commutative algebra and algebraic geometry (W3)	Introduction to group theory (W1)
	Ring theory (W2)
Machine learning (NOT neural networks) (W3)	Introduction to linear algebra (W1)
Problem solving: graph theory (W3)	Introduction to graph theory (W1)
Infinite groups are weird (W3)	Introduction to group theory (W1)
Algebraic solutions to Painlevé VI (W4)	Introduction to linear algebra (W1)
	Introduction to group theory (W1)
A curious connection between p-adic distances and triangulations of a square (W4)	Ring theory (W2)
The distribution of prime numbers (W4)	Introduction to number theory (W1)
Problem solving: cheating in geometry (W4)	Introduction to linear algebra (W1)
The abc's of polynomialand (W4)	Introduction to number theory (W1)
High-dimensional potatoes (W4)	Introduction to linear algebra (W1)
Algebraic topology: homology (W4)	Introduction to linear algebra (W1)
	Introduction to group theory (W1)
Finite fields (W4)	Introduction to linear algebra (W1)
	Ring theory (W2)
Cantor before set theory (W4)	Introduction to real analysis: epsilons and deltas (W1)
Representation theory (week 2) (W4)	Introduction to linear algebra (W1)
	Introduction to group theory (W1)
Baire necessities for Banach–Tarski (W4)	Introduction to graph theory (W1)
	Introduction to group theory (W1)
Introduction to Galois theory (W4)	Introduction to group theory (W1)
	Ring theory (W2)

(Also see other side!)