

Mathcamp 2017 Tentative Four-Week Schedule

Time	Week 1	Week 2	Week 3	Week 4
9:10	All Things Manifolds 🍷 (Aurva)	Functions of a Complex Variable, Week 1 🍷🍷 (Mark)	Classification of Subgroups of $GL_2(\mathbb{F}_q)$ 🍷🍷 (Aaron)	Bernoulli Numbers 🍷🍷 (Lara)
	Generating Functions and Regular Expressions 🍷 (Linus)	Hyperplane Arrangements 🍷 (Kevin)	Cubic Curves 🍷🍷 (Mark)	Quivers 🍷🍷 (Asilata Bapat)
	Group Theory 🍷🍷 (Mark)	Math and Brains 🍷 (Nora Youngs)	Geometry! 🍷 (Zach Abel)	The Traveling Salesman Problem: Recent Research 🍷🍷 (Sam)
	[HR] Real Analysis 🍷🍷 (Nic Ford)	Planar Algebras 🍷🍷 (Noah Snyder)	[HR] Problem Solving: Probabilistic Method 🍷 (Tim!)	Short Classes 🍷 → 🍷 (Various Staff)
	The Kakeya Conjecture 🍷🍷🍷 (Yuval)	Set Theory 🍷🍷🍷 (Steve)	The Logistics of Zombies: Cobwebs and Chaos 🍷🍷 (Beatriz)	Unique Factorization Domains 🍷 (Alfonso & Kevin)
10:10	Banach-Tarski 🍷🍷🍷 (Andrew Marks)	Analytic Number Theory 🍷🍷 (Djordje Milicevic)	Pseudo-Telepathy 🍷🍷🍷 (Jalex)	Combinatorial Gems 🍷 (Alfonso & Kevin)
	Intro to Graph Theory 🍷 (Marisa)	Riemann and Series 🍷 (Lara)	[HR] Axiomatic Probability 🍷🍷 (Sam)	How to Define the Square Root 🍷 (Aurva)
	Multivariable Calculus Crash Course 🍷🍷 (Mark)	Systems of Differential Equations 🍷🍷 (Mark)	How to Pronounce "Lucas" 🍷🍷 (Misha)	[HR] Math Writing Workshop 🍷 (Beatriz)
	The Fundamental Group 🍷🍷 (Aaron)	Underhanded Tricks with Markov Chains 🍷🍷 (Misha)	Hyperreal Numbers 🍷 (Don & Tim!)	[HR] Riemann Surfaces 🍷🍷🍷 (Aaron)
	Wallpaper Patterns 🍷 (Susan)	Vertex-Transitive Polytopes 🍷 (Viv)	Ramsey Theory 🍷 (Lynn Scow)	TBD 🍷🍷 → 🍷🍷🍷 (Mark)
11:10	[HR] Linear Algebra 🍷🍷 (Don)	Cloudy with a Chance of the Continuum Hypothesis 🍷🍷 (Angela)	Coloring the Hyperbolic Plane 🍷 (Ina)	Advanced Complex Analysis 🍷🍷 → 🍷🍷🍷 (Yuval)
	[HR] Mathcamp Crash Course 🍷 (Tim!)	Coloring Graphs on Surfaces 🍷 (Marisa)	Quadratic Field Extensions 🍷🍷 (Lara)	Discrete Derivatives 🍷 (Tim!)
	Metric Space of Metric Spaces 🍷🍷 (Steve)	Cryptography, and How to Attack It, Week 1 🍷🍷 (Linus)	Symmetries of Spaces 🍷🍷 (Aurva)	Finite Geometries 🍷🍷 (J-Lo)
	Not Your Grandparents' Algorithms Class 🍷 (Sam)	[HR] Finite Fields 🍷🍷 (Aaron)	Voting Systems 🍷 (Mira & Ari)	Fractals and Dimension 🍷 (Steve)
	Weak Separation 🍷🍷 (Kevin)	Mathematica Workshop 🍷 (Beatriz)	Young Tableaux 🍷 (Kevin)	Special Relativity 🍷 (Lotta)
1:10	From the Intermediate Value Theorem to Chaos 🍷 (Beatriz)	Euler Characteristic 🍷 (Aurva)	Ancient Greek Mathematics 🍷 (Yuval)	Decomposing and Factoring 🍷 (Marisa)
	Prime Numbers 🍷🍷🍷 (Lara)	[HR] Evasiveness 🍷🍷🍷 (Tim!)	Constructive Logic 🍷🍷 (Anti Shulman)	[HR] Division Rings, Week 2 🍷🍷🍷 (Susan)
	Problem Solving: Geometric Transformations 🍷 (Misha)	[HR] Ring Theory 🍷🍷 (Susan)	Cryptography, and How to Attack It, Week 2 🍷🍷 (Linus)	Logic Puzzles 🍷 (Don)
	[HR] The Bell Curve 🍷🍷 (Mira)	Shannon Capacity of Graphs 🍷 (Yuval)	[HR] Division Rings, Week 1 🍷🍷🍷 (Susan)	Problem Solving: Diophantine Equations 🍷🍷 (Misha)
	[HR] Urban Planning 🍷 (Luke Joyner)	[HR] Turing and His Work 🍷 → 🍷 (Sam)	Voting Systems 🍷 (Mira & Ari)	Trail Mix 🍷 → 🍷🍷🍷 (Mark)

Key: [HR]—Homework Required