Flowchart of Prerequisite Classes

Week 1   Week 2   Week 3   Week 4

- Linear Algebra
- Multi-Coefficient Solving of Polynomials
- Quiver Representations
- Representation Theory of Associative Algebras
- Eigenstuff and Beyond
- Systems of Differential Equations
- Long Live Determinants
- Quantum Mechanics
- (Dys)functional Analysis
- Young Tableaux and Representation Theory
- Young Tableaux and Enumerative Geometry
- Introduction to Ring Theory
- Everything You Ever Wanted to Know About Finite Fields
- Counting Points Over Finite Fields
- Introduction to Group Theory
- Group Theory & Rubik's Cubes
- Non-Euclidean Geometries
- Unique and Nonunique Factorization
- Galois Cohomology of Covering Spaces
- From High School Arithmetic to Group Cohomology
- Zeta Functions
- Introduction to Number Theory
- Algorithms in Number Theory
- Tychonoff's Theorem
- Topology
- Fundamental Groups
- Reciprocity Laws in Algebraic Number Theory
- Introduction to Algebraic Number Theory
- Riemann Surfaces
- Multivariable Calculus Crash Course
- Functions of a Complex Variable
- The Weierstrass $\wp$ Function