### Comprehensive Emphasis Prerequisite Flow Chart

**MATH 413 (F/S) Linear Algebra** *(Required)*

**MATH 425A (F) Real Anls Sing Var** *(Required)*

**MATH 425B (S) Real Anls Sev Var** *(Required)*

**MATH 415A (F) Abstract Algebra** *(Sequence option 1)*

**MATH 415B (S) Abstract Algebra** *(Sequence option 1)*

**MATH 424 (S) Complex Analysis** *(Required)*

**MATH 432 (S) Topology** *(Recommended)*

**MATH 223 (F/S/Sum) Vector Calculus** *(Recommended)*

**MATH 313 (F/S/Sum) Intro to Linear Alg** *(Recommended)*

**MATH 355 (F/S) Anls Ord Diff Eqns**

**MATH 454 (F/S) ODEs** *(Sequence option 2)*

**MATH 456 (S) PDEs** *(Sequence option 2)*

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- **= Required for Math major**
- **= Required for this emphasis**
- **= Several options are available to fulfill requirement**
- **= Recommended for students planning to attend grad school in Math**