

Department of Mathematics Capstone Presentations Spring 2017

Wednesday 5/10, room 214		Title	Area
3:30-3:45	Bortel, Hannah	Cryptography	Cryptography
3:50-4:05	Davis, Leanna	Division Algorithm for Polynomials	Algebra, Math Education
4:10-4:25	Domini, Desiree	Modeling exchange rate volatility	Financial Mathematics
5:00-5:15	Haffly, Ben	The Prouhet-Thue_Morse Sequence	Combinatorics
5:20-5:35	McGovern, Ashlee	Group theory applied to Chemistry	Algebra
5:40-5:55	Hanna, Emily	Instant Insanity	Graph Theory
Wednesday, 5/10, room 216		Title	Area
3:30-3:45	Beemsterboer, Emily	The Basics of Biological Pattern Formations	Math biology
3:50-4:05	Holm, Liz	Round Robin Tournaments	Linear Algebra
4:10-4:25	Fosmire, Matthew	Game Theory and the Nash Equilibrium	Game Theory
5:00-5:15	Hoff, Carissa	Propositional Logic and Proofs	Mathematical Logic
5:20-5:35	Schatz, Hailei	Differential Equations in Economics	Financial mathematics
5:40-5:55	Driver, Ben	The Distribution of Order Statistics	Statistics
Saturday, 5/13, room 214		Title	Area
9:30-9:45	Amezola, Miguel	Testing for Compositness	Number Theory
9:50-10:05	Dunning, Egan	The Quadratic Sieve Factoring Algorithm and its Application to Cryptography	Cryptography
10:10-10:25	Gomez, Jason	Lie Groups and Lie Algebras	Algebra
11:00-11:15	Huskey, Kenyah	Quadratic Reciprocity Law	Number Theory
11:20-11:35	Johnson, Devon	Multinomial coefficients and divisibility by prime powers	Number Theory
11:40-11:55	Tracy, Devin	That's not fair! Who really won the election?	Voting Theory
Saturday 5/13, room 216		Title	Area
9:30-9:45	Currier, Sierrah	Modeling the Infectious Disease, HIV, using Differential Equations	Differential equations
9:50-10:05	Greer, Collin	Linear Programming	Linear programming
10:10-10:25	Jogerst, Robert	Origami and Circle packing	Geometry
10:30-10:45	Pennington, Justin	Algebraic Coding Theory	Coding Theory
11:00-11:15	Smith, Chenae	Building Complex Numbers with Equivalence Relations	Equivalence Relations, Math Education
11:20-11:35	Spraggin, Tiara	Modern Portfolio Theory	Financial Mathematics
11:40-11:55	Tsujikawa, Brenna	Using Origami to Fold the Regular Pentagon and Heptagon	Geometry