

Student Talk	Date & Time	ARTS 133	ARTS 134	ARTS 146	ARTS 214
1	Thursday 9:00 AM	<i>Hugo and Stas' Magic Observable Spectacular</i> Kian Blanchette	<i>Colouring Theorems in Ramsey Theory</i> Xinrui Jia	<i>Periodic Solutions for a Class of Liénard-Type Equations</i> Emily Rose Korfanty	
2	Thursday 9:30 AM	<i>An Intro to Majorization</i> Gregory Patchell	<i>Dominating Set Reconfiguration</i> Elizabeth McKenzie-Case	<i>The Ripple Effect of the Brouwer Fixed Point Theorem</i> Schinella D'Souza	<i>Classification of Exceptional Sequences of Type D</i> Emily Carrick
3	Thursday 10:00 AM	<i>Brownian Motion in Complex Analysis</i> Zhenyuan Zhang	<i>An Introduction to the Weierstrass <math>p</math>-Function</i> Andre de Waal	<i>Linear Algebra via the Union of the Concrete and Abstract</i> Nischay Reddy	<i>Constructing Nonsparse Companion Matrices</i> Jonathan Fischer
4	Thursday 2:45 PM	<i>An Application of the Least Residue System Mod 4</i> Dragos Secieru	<i>A Comparison of Two Classifications of Solvable Lie Algebras</i> Matthew Wu	<i>A Connection Between Graphs and the Quantum Group <math>U_q(\mathfrak{sl}(2, \mathbb{C}))</math></i> Mehwish Muhammad Anwar	
5	Thursday 3:15 PM	<i>Some Order Theory, Logic, and Applied Category Theory</i> David Ledvinka	<i>Highly Homogeneous Intersection Graphs</i> Xinjie Qian	<i>A Computational and Mathematical Model of Cell Signaling, Movement, and Interaction</i> Zachary Pellegrin	<i>A Mathematical Look into Poker</i> Dallas McIntosh
6	Thursday 3:45 PM	<i>Waring's Problem and the Hardy-Littlewood Method</i> Alexander Slamen	<i>Communications in Math: A Pilgrimage</i> Ida Liu	<i>A Hitchhiker's Guide to Counting Infinities</i> Amanda Petcu	
7	Friday 9:00 AM	<i>SIKE: A Post-Quantum Cryptography Scheme</i> Madison Van Dyk	<i>A Hawk in Time</i> Aiden Huffman	<i>Twists of the Burkhardt Quartic</i> Eugene Filatov	<i>Solution to AMM Problem 12008</i> Benjamin Cook
8	Friday 9:30 AM	<i>Self-Similar Measures</i> Wanchun Shen	<i>Solutions of an Isobaric, Inviscid Flow in Two Spatial Dimensions</i> Jonah Saks	<i>An Introduction to the Representation Theory of <math>GL_2</math> Over Finite Fields</i> Siddharth Mahendrakar	
9	Friday 10:00 AM	<i>Real and Complex Tori</i> Yuxuan Sun	<i>Densities of Bounded Primes for Hypergeometric Series</i> Brandon Gill	<i>Where to Bee? Spatial Landscape Optimization of Bumblebees in a Blueberry Field</i> Noah Marshall	
10	Friday 2:15 PM	<i>Representations of <math>S_3</math></i> Stephen Wen	<i>The Depth of Data: An Introduction to Topological Data Analysis</i> Alex Hanna	<i>On a Construction of Surfaces with Distinct Hilbert Metrics and Identical Length Spectra</i> Fernando Camacho & Troy Giorshv	<i>Diophantine <math>m</math>-Tuples</i> Riley Becker
11	Friday 2:45 PM	<i>Intro to Distance Regular Graph</i> Rana Saleh	<i>Classification of Line Bundles on Riemann Surfaces</i> Thomas Stanley	<i>Latin Squares and Rainbow Bases: A Curious Conjecture</i> Benjamin Friedman	
12	Friday 3:15 PM	<i>Games on the Real Numbers</i> David Cui	<i>Regular Tiling in Non-Euclidean Space</i> Devin Patterson	<i>Implementation of the Generic Solution of Transparent Thinking Approach (ITA) in Mathematics Education</i> Ahmad Aliedeh	
13	Saturday 9:00 AM	<i>Graph Homomorphisms</i> Zishen Qu	<i>Fractional Calculus</i> Kyle Booker	<i>The <math>k</math>-Squares Problem</i> Malik Amir	<i>An Introduction to Representation Theory of Finite Groups</i> Nicole Kitt
14	Saturday 9:30 AM	<i>A Spectral Theorem for Diffeomorphisms</i> Jeremy Hume	<i>Irreducible Quadratics over <math>\mathbb{Z}_n</math></i> Robyn Hearn	<i>Temporal Resolution of Motion Correlation Detection - A Statistical Approach</i> Olivia Zihuai Shi	
15	Saturday 10:00 AM	<i>Change-Point Detection in Biological Image Analysis</i> Rachel Lobay	<i>What are Vortices?</i> Caleb Suan	<i>Geodesics on a Kerr-Newman-(Anti) de Sitter Instanton</i> Aidan Lindberg	
16	Sunday 9:00 AM	<i>Pisot-Vijayaraghavan Numbers</i> Alex Rutar	<i>Deep Learning and Partial Differential Equations</i> Martin Do Pham	<i>Quivers, Flags, and Varieties: Investigating a Conjecture by Counting</i> Calder Morton-Ferguson	
17	Sunday 9:30 AM	<i>Math, Magic, and Mysticism</i> Jordyn Dyck	<i>Entanglement and Absolute Separability of Quantum States</i> Jason Zerr	<i>Numerical Computation of Energy-Minimizing Spherical Designs and Physical Applications</i> Wesley Ridgway	
18	Sunday 10:00 AM	<i>An Introduction to Quasianalytic Classes and a Composite Function Problem</i> Michael Chow	<i>Introduction to Complexity</i> Arnott Kidner	<i>3D Modelling of Muscle Mechanics by Finite Elements</i> Megan Monkman	
19	Sunday 10:30 AM	<i>Introduction to Knot Invariants</i> Wilson Poulter		<i>Learning Gaussian Mixture Models Using the EM Algorithm</i> Alexandra Kirillova	