Department of Mathematics

March 10, 2025

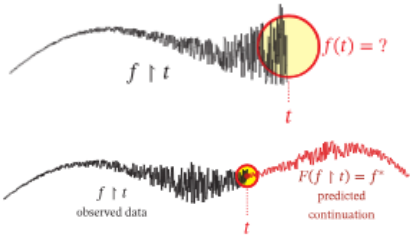
Calculus Help Center: Last night is Thursday, March 13.

As the term is winding down, so is the Calculus Help Center. Let's give a hearty **THANK YOU** to the CHC tutors**: Ananya Gupta, Frankie Morone, Nabeel Naqvi, Jonah Sagarin, Maddie Suitor,** and **Abby Wilder.** The Math Department and its students truly appreciate your efforts.

Math Club to Host Pi Day Pie Bake

Join Math Club for a Pi Day celebration! We're hosting a pie baking event in **Green House Kitchen and Great Room** on **Friday, March 14th, at 3:14 PM.** Come bake, and enjoy delicious pies to celebrate math's most famous constant π!

Professor Alan Taylor's Results Get Praised … Predictably

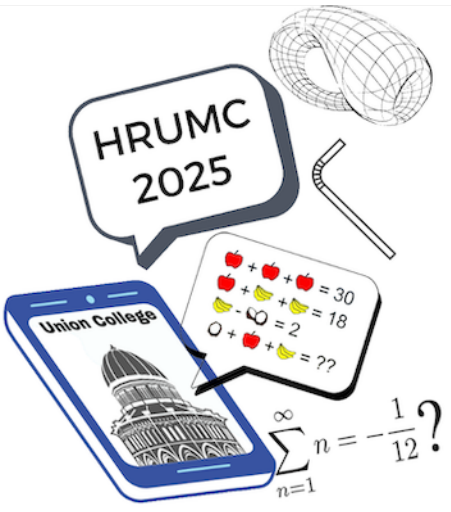


The most recent issue of *Notices of the American Mathematical Society* contains a short story, The Nearly Perfect Prediction Theorem, by Joel David Hamkins describing (with great praise!) a 2008 paper by Union College Math **Professor Alan Taylor** (now emeritus) and Chris Hardin (a former Visiting Assistant Professor at Union), A Peculiar Connection Between the Axiom of Choice and Predicting the Future.

Like stock-market traders trying to guess today's opening price and movements, we aim to predict the current and future values of an unknown function based on the observed history of previous values. The true function $f: R \to R$, not necessarily continuous, will be revealed only gradually. The nearly perfect prediction theorem, a remarkable result of Christopher Hardin and Alan Taylor shows that there is a nearly perfect prediction strategy, predicting the current and immediate future values of every function almost always correctly.

For more, check out both the original article and the story about it!

HRUMC – Saturday, April 5, 2025



The Union College Math Department will be hosting this year's Hudson River Undergraduate Mathematics Conference (HRUMC) on **Saturday, April 5th**.

This day-long conference will feature 15-minute talks *primarily by students*, a keynote address by **Professor Álvaro Lozano-Robledo** from the University of Connecticut entitled "***Math in the Age of Social Media***", and lunch panels themed for students: "Making the Most of One's Undergraduate Mathematics Experience" and "What can I do with a math degree?"

Conference registration and talk/abstract submission is through the HRUMC website, HRUMC (or just google it!)

- To volunteer at the conference, contact any of the three students on the HRUMC steering committee as soon as possible: **Audrey Benson** (bensona2@union.edu), **Frankie Morone** (moronef@union.edu), **Tremaine Richardson** (richardt@union.edu)
- To present a talk (based on summer research, a thesis, a project, or problem you enjoyed, etc.) contact a math faculty member to sponsor it. Then register by **March 16.**
- To simply attend, register by **March 31**.

Winter 2025 Math Final Exam Schedule

Course #	Course Name	Professor	Day	Date	Time	Room
MTH-065-01	Mathematics & Social Justice	Gasparovic, E.	T	3/18	8:30 to 10:30 AM	BAIL 207
MTH-105-01	Diff Calculus With Precal	De Andrade Mariano, P.	M	3/17	6:00 to 8:00 PM	OLIN 115
MTH-105-02	Diff Calculus With Precal	De Andrade Mariano, P.	M	3/17	6:00 to 8:00 PM	OLIN 115
MTH-110-01	Calculus 1: Differential Calc	Plofker, K.	W	3/19	8:30 to 10:30 AM	BAIL 201
MTH-110-02	Calculus 1: Differential Calc	Hatley, J.	T	3/18	2:30 to 4:30 PM	BAIL 102
MTH-112-01	Calculus 2: Integral Calc	Friedman, P.	M	3/17	6:00 to 8:00 PM	REAM AUD
MTH-112-02	Calculus 2: Integral Calc	Friedman, P.	M	3/17	6:00 to 8:00 PM	REAM AUD
MTH-112-03	Calculus 2: Integral Calc	Moles, G.	M	3/17	6:00 to 8:00 PM	REAM AUD
MTH-112-04	Calculus 2: Integral Calc	Moles, G.	M	3/17	6:00 to 8:00 PM	REAM AUD
MTH-112-05	Calculus 2: Integral Calc	Khatami, L.	T	3/18	2:30 to 4:30 PM	BAIL 104
MTH-113-01	Acc Single-Variable Calculus	Gajek-Leonard, R.	T	3/18	2:30 to 4:30 PM	BAIL 207
MTH-115-01	Calculus 3: Diff Vector Calc	Qian, J.	Th	3/20	11:30 to 1:30 PM	VART 204
MTH-115-02	Calculus 3: Diff Vector Calc	Qian, J.	Th	3/20	11:30 to 1:30 PM	VART 204
MTH-115-03	Calculus 3: Diff Vector Calc	Jauregui, J.	T	3/18	2:30 to 4:30 PM	BAIL 100
MTH-117-01	Calculus 4: Integral Vector	Xu, F.	W	3/19	8:30 to 10:30 AM	BAIL 106
MTH-130-01	Ordinary Differential Equation	Johnson, B.	T	3/18	6:00 to 8:00 PM	REAM AUD
MTH-130-02	Ordinary Differential Equation	Johnson, B.	T	3/18	6:00 to 8:00 PM	REAM AUD
MTH-130-03	Ordinary Differential Equation	Carney, S.	T	3/18	2:30 to 4:30 PM	BAIL 106
MTH-140-01	Applied Linear Algebra	Jauregui, J.	M	3/17	11:30 to 1:30 PM	BAIL 100
MTH-199-01	Intro to Logic & Set Theory	Xu, F.	M	3/17	11:30 to 1:30 PM	BAIL 106
MTH-199-02	Intro to Logic & Set Theory	Gajek-Leonard, R.	M	3/17	2:30 to 4:30 PM	BAIL 106
MTH-221-01	Mathematical Cryptology	Hatley, J.	W	3/19	8:30 to 10:30 AM	BAIL 102
MTH-234-01	Differential Equations	Carney, S.	M	3/17	2:30 to 4:30 PM	BAIL 207
MTH-340-01	Linear Algebra	Khatami, L.	M	3/17	11:30 to 1:30 PM	BAIL 104
MTH-432-01	Abstract Algebra 2	Gasparovic, E.	T	3/18	11:30 to 1:30 PM	BAIL 207
STA-104-01	Introduction to Statistics	Hoerl, R.	T	3/18	2:30 to 4:30 PM	ISEC 187
STA-264-01	Regression Analysis	Hoerl, R.	W	3/19	8:30 to 10:30 AM	WLDC 128
IMP-120-01	Int Math/Physics 1 W/Lab	Tønnesen-Friedman, C.	M	3/17	2:30 to 5:30 PM	ISEC 118

Good luck on your finals and then enjoy Spring Break!