

Math 390R/490R, Winter 2025

Class Schedule

Week Starting	Monday	Tuesday	Wednesday	Thursday	Friday
Jan 6			No class (instructor out of town)		No class (instructor out of town)
Jan 13	Linear system of equations		Gauss-Jordan elimination		Gauss-Jordan elimination
Jan 20	No class (MLK day)		Linear programming HW 1 due		Linear programming Quiz 1
Jan 27	Linear programming		Lab 1 HW 2 due		Matrix multiplication Lab 1 due
Feb 3	PageRank algorithm Quiz 2		PageRank algorithm HW 3 due		Lab 2
Feb 10	Optimization problem of single-variable function Lab 2 due		Numerical methods for solving an equation		Numerical methods for solving an equation
Feb 17	No class (President's day)		Lab 3 HW 4 due		Multivariable function and partial derivatives Lab 3 due
Feb 24	Partial derivatives		Optimization problem of multivariable function Quiz 3 HW 5 due		Steepest descent algorithm
Mar 3	Steepest descent algorithm		Lab 4		Optimization under constraints Lab 4 due
Mar 10	Optimization under constraints		Optimization under constraints		Partial differential equations HW 6 due
Mar 17	Separation of variables		Euler's method Quiz 4		Finite difference method HW 7 due

Mar 24	Finite difference method		No class (Prince Kuhio day)		Lab 5 HW 8 due
Mar 31	Fundamentals of neural network Quiz 5 Lab 5 due		Fundamentals for neural network	Ugrad Research Conference	Neural network method for differential equations
Apr 7	Neural network method for differential equations		Working on project (Math 390R only)		Working on project (Math 390R only)
Apr 14			Project due Presentation of project (Math 390R only)		Graduation