Math B210: Differential Equations with Applications

How do we study functions when we only know their derivatives?

Did you know? Differential equations are used to study drug delivery, disease epidemics, chaos, electrical circuits, spacecraft navigation, supply & demand, and much more!

Course topics: This course focuses on using a combination of numerical/computational, geometric, and analytic methods to study various types of differential equations (linear vs. nonlinear; first-order vs. higher-order) and systems of equations. Various applications—especially in physics, biology, and economics—will also be explored.

Co-requisite: Math B201 (multivariable calculus), B203 (linear algebra), or instructor permission. Contact vdonnay@brynmawr.edu for more information.