Fall 2020 Course Announcement

**Math B210: Differential Equations with Applications**

Tuesday/Friday, 11:10 a.m. – 12:30 p.m.

Instructor: Erica Graham

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 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 ejgraham@brynmawr.edu for more information.