



4 Courses

**Calculus through Data & Modelling: Series and Integration**

**Calculus through Data & Modelling: Techniques of Integration**

**Calculus through Data & Modelling: Integration Applications**

**Calculus through Data & Modelling: Vector Calculus**



Feb 4, 2024

**Sepehr Abbaspour**

has successfully completed the online, non-credit Specialization

# Integral Calculus through Data and Modeling

This specialization builds on the concepts of differentiable calculus to introduce students to the notions of integral calculus of single and multivariable functions. Starting with the Fundamental Theorem of Calculus and ending with Green's Theorem, the theory and applications in this course are used to model, understand, and interpret the world around us. This is done through both theoretical and numerical techniques, with an emphasis on problem solving, interpretation of solutions, and mathematical communication. This specialization is designed for all learners, not just those interested in further mathematics courses. Those interested in the natural sciences, computer sciences, data science, or similar fields will genuinely benefit from this course.

Joseph W. Cutrone, PhD  
Senior Lecturer  
Mathematics  
Department  
Johns Hopkins  
University

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

<https://coursera.org/verify/specialization/FQQL8ZS6KUY8>