

About the course **Mathematical methods in physics**

Course Presenter : Zach Star

Mathematical methods in physics, in this course we will learn about the essential mathematical tools used to solve complex physical problems. From vector calculus and differential equations to linear algebra, complex analysis, and Fourier series, this course equips you with the mathematical foundation required for higher-level physics courses such as quantum mechanics, electromagnetism, and general relativity. You'll explore how to apply these methods to model physical systems, analyze wave functions, describe fields, and work with symmetry in nature. Whether it's solving Schrödinger's equation, analyzing harmonic oscillators, or transforming coordinates in different frames, mathematics is the language of physics. This course is ideal for physics majors aiming to strengthen their problem-solving skills and understand the quantitative framework behind physical laws. Let's begin mastering the mathematics that drives physics Zach Star

Mathematics Category's Courses

Course Lesson(8)

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