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It's a thorough introduction that presumes a basic knowledge of multivariate differential calculus but is pretty well self-contained

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Differential equations are both challenging objects at a mathematical level and crucial in many ways for engineers. In addition, linear algebra methods are an essential part of the methodology commonly used in order to solve systems of differential equations. This course proposes to combine a basic introduction

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Differential Equations and Linear Algebra, 1.1: Overview

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Differential equations and linear algebra are two central topics in the undergraduate mathematics curriculum. This innovative textbook allows the two subjects to be developed either separately or together, illuminating the connections between two fundamental topics, and giving increased flexibility to instructors.

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