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The chief goal in this textbook is to show students how calculus relates to biology, with a style that maintains rigor without being overly formal. The text motivates and illustrates the topics of calculus with examples drawn from many areas of biology, including genetics, biomechanics, medicine, pharmacology, physiology, ecology, epidemiology, and evolution, to name a few.

### BioCalculus: Calculus for Life Sciences: Stewart, James

Authored by two distinguished researchers/teachers and an experiences, successful textbook author, Calculus for Life Sciences is a valuable resource for Life Science courses. As life-science departments increase the math requirements for their majors, there is a need for greater mathematic knowledge among students. This text balances rigorous mathematical training with extensive modeling of ...

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Second, the ultimate goal of calculus in the life sciences primarily involves modeling living systems with difference and differential equations. Understanding the concepts of derivative and integral are crucial, but the ability to compute a large array of derivatives and integrals is of secondary importance.

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Calculus for the Life Sciences is an entire reimagining of the standard calculus sequence with the needs of life science students as the fundamental organizing principle. Those needs, according to the National Academy of Science, include: the mathematical concepts of change, modeling, equilibria and stability, structure of a system, interactions among components, data and measurement ...

### Calculus for the Life Sciences: A Modeling Approach

Calculus for the Life Sciences features interesting, relevant applications that motivate students and highlight the utility of mathematics for the life sciences. This edition also features new ways to engage students with the material, such as Your Turn exercises.

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