



# Ecology: Evolution, Application, Integration

By David T. Krohne

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## **Ecology: Evolution, Application, Integration** By David T. Krohne

*Ecology: Evolution, Application, Integration* provides students and instructors with a groundbreaking evolutionary approach that transforms ecology from a collection of disassociated facts into an integrated, concept-driven discipline. Since most ecological interactions are rooted in adaptive evolution, students learn to place ecological problems in an evolutionary context, thinking critically instead of just memorizing facts. This text develops scientific reasoning skills by teaching students not just what we know about the field, but also how we know what we know about it.

Each chapter of *Ecology* begins with a fundamental ecological question. The sections of the chapter are designed around a logical sequence of smaller questions, the answers to which eventually enable students to answer the chapter's main question. This approach models the process of science; as students gain experience with this approach, they can apply it to new problems and questions.

### ***Ecology: Evolution, Application, Integration* is distinguished by the following approaches:**

- Integrates modern evolutionary theory throughout
- Highlights applications and connections to the real world
- Emphasizes inquiry, critical thinking, and the process of science
- Presents quantitative topics clearly and in real-world applied contexts

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## **Editorial Review**

### Review

"This text is a welcome departure from the ecology textbooks that are long on case studies and short on unifying ideas and concepts that carry through the chapters from adaptation to global ecology. In a very accessible and engaging style, Krohne has written a concise summary of ecological science, its organizing ideas and modern applications."

--Susan Schwinning, *Texas State University - San Marcos*

"This is a strong, comprehensive ecology text that does an excellent job infusing evolutionary approaches to the analysis and understanding of ecological problems."

--Inna Sokolova, *University of North Carolina at Charlotte*

"The author uses multiple examples of human impacts, which tie the course to environmental science, making this text a strong interdisciplinary tool."

--Marc Milne, *University of North Carolina at Greensboro*

"This is the best book I've seen that interprets ecology as a science of connections among the disciplines of evolution, genetics, and environmental physiology."

--Keith S. Summerville, *Drake University*

"Students who read this text will open their eyes to the world around them. It sets the foundation to train students to be scientists."

--Jennifer Zettler, *Armstrong Atlantic State University*

"The evolutionary perspective sets this book apart from other texts."

--Stephen Sumithran, *Eastern Kentucky University*

### About the Author

**David T. Krohne** is Professor Emeritus of Biology and former Biology Department Chair at Wabash College.

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