Ecology for the 21st century

Orianna Carter

Ecology for the 21st Century is a comprehensive, beginner-friendly, introductory textbook that provides students with an ecological perspective on our changing world. Suitable for both nonmajors and majors ecology courses, this textbook presents a clear and wide-ranging coverage, including many current examples and topics. Applying a student-centric approach with dynamic examples and case studies, the book's ecological principles emerge through topics students care to learn more about. For example, the "twin-evils" of atmospheric carbon and ocean acidification are explored through investigations of the health of coral reef ecosystems.

In addition, populations and species dynamics are introduced using classical modeling parameters. This textbook drives home the delicate balance of the natural world through regional issues surrounding endangered versus invasive species. Themes of resource acquisition, adaptation, and evolution of species are reinforced throughout, encouraging students to envision an ecologically driven world.

Orianna Carter is an Associate Professor in the Biological Sciences at Ohio University. As a well-established biologist in her field, she has published various case studies and field research. Her research interests include environmental toxicology and natural products as preventative care. She also has a background in therapeutic herbalism from her family heritage with generations of using medical plants. She teaches ecology, biochemistry, conservation, and biodiversity at Ohio University.

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