


## Sci 207 Lab 3 Biodiversity

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Bulletin MLSA Kathleen M. Susman  Virginia Borden Mary Thomas Crane Mary Wuerth Mary Wuerth University of Northern Iowa C.R.A.-Istituto Sperimentale per la Selvicoltura Arezzo University of Virginia Colorado State University. Office of Vice President for Research and Information Technology Albert Kaskel Rick Hallman University of Illinois at Urbana-Champaign North Pacific Marine Science Organization Irina Yu Bakloushinskaya Colorado State University. Office of Vice President for Research and Information Technology University of Michigan. College of Literature, Science, and the Arts

for nearly a decade scientists educators and policy makers have issued a call to college biology professors to transform undergraduate life sciences education as a gateway science for many undergraduate students biology courses are crucial to addressing many of the challenges we face such as climate change sustainable food supply and fresh water and emerging public health issues while canned laboratories and cook book approaches to college science education do teach students to operate equipment make accurate measurements and work well with numbers they do not teach students how to take a scientific approach to an area of interest about the natural world science is more than just techniques measurements and facts science is critical thinking and interpretation which are essential to scientific research discovery based learning in the life sciences presents a different way of organizing and developing biology teaching laboratories to promote both deep learning and understanding of core concepts while still teaching the creative process of science in eight chapters the text guides undergraduate instructors in creating their own discovery based experiments the first chapter introduces the text delving into the necessity of science education reform the chapters that follow address pedagogical goals and desired outcomes incorporating discovery based laboratory experiences realistic constraints on such lab experiments model scenarios and alternate ways to enhance student understanding the book concludes with a reflection on four imperatives in life science research climate food energy and health and how we can use these laboratory experiments to address them discovery based learning in the life sciences is an invaluable guide for undergraduate instructors in the life sciences aiming to revamp their curriculum inspire their students and prepare them for careers as educated global citizens

this book tells the story of how a team of colleagues at boston college took an unusual approach working with a design consultancy to renewing their core and in the process energized

administrators faculty and students to view liberal arts education as an ongoing process of innovation it aims to provide insight into what they did and why they did it and to provide a candid account of what has worked and what has not worked although all institutions are different they believe their experiences can provide guidance to others who want to change their general education curriculum or who are being asked to teach core or general education courses in new ways the book also includes short essays by a number of faculty colleagues who have been teaching in bc s new innovative core courses providing practical advice about the challenges of trying interdisciplinary teaching team teaching project or problem based learning intentional reflection and other new structures and pedagogies for the first time it will also address some of the nuts and bolts issues they have encountered when trying to create structures to make curriculum change sustainable over time and to foster ongoing innovation

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