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Week 3. Spring 2018. P. SMOUSE. Ecology and Evolution 108. These are the notes for Principles of Evolution, Lecture 5, and 6. Stay tuned for the study guide.

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they may see on the exam.

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Study of ecology and evolution benefit humans: - Pollinators - Disease resistance - Carbon sinks - Food  
What are threats to biodiversity? Deforestation and habitat loss, desertification, climate change, overexploitation (hunting), invasive species ( The introduction of non-native species into an ecosystem can threaten endemic wildlife), pollution

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Meta-analysis is a powerful statistical methodology for synthesizing research evidence across independent studies. This is the first comprehensive handbook of meta-analysis written specifically for ecologists and evolutionary biologists, and it provides an invaluable introduction for beginners as well as an up-to-date guide for experienced meta-analysts. The chapters, written by renowned experts, walk readers through every step of meta-analysis, from problem formulation to the presentation of the results. The handbook identifies both the advantages of using meta-analysis for research synthesis and the potential pitfalls and limitations of meta-analysis (including when it should not be used). Different approaches to carrying out a meta-analysis are described, and include moment and least-square, maximum likelihood, and Bayesian approaches, all illustrated using worked examples based on real biological datasets. This one-of-a-kind resource is uniquely tailored to the biological sciences, and will provide an invaluable text for practitioners from graduate students and senior scientists to policymakers in conservation and environmental management. Walks you through every step of carrying out a meta-analysis in ecology and evolutionary biology, from problem formulation to result presentation Brings together experts from a broad range of fields Shows how to avoid, minimize, or resolve pitfalls such as missing data, publication bias, varying data quality, nonindependence of observations, and phylogenetic dependencies among species Helps you choose the right software Draws on numerous examples based on real biological datasets



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An innovative introduction to ecology and evolution This unique textbook introduces undergraduate students to quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation. It explores the core concepts shared by these related fields using tools and practical skills such as experimental design, generating phylogenies, basic statistical inference, and persuasive grant writing. And contributors use examples from their own cutting-edge research, providing diverse views to engage students and broaden their understanding. This is the only textbook on the subject featuring a collaborative "active learning" approach that emphasizes hands-on learning. Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups. Each problem includes data presented in a rich array of formats, which students use to answer questions that illustrate patterns, principles, and methods. Topics range from Hardy-Weinberg equilibrium and population effective size to optimal foraging and indices of biodiversity. The book also includes a comprehensive glossary. In addition to the editors, the contributors are James Beck, Cawas Behram Engineer, John Gaskin, Luke Harmon, Jon Hess, Jason Kolbe, Kenneth H. Kozak, Robert J. Robertson, Emily Silverman, Beth Sparks-Jackson, and Anton Weisstein. Provides experience with hypothesis testing, experimental design, and scientific reasoning Covers core quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation Turns "discussion sections" into "thinking labs" Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: [http://press.princeton.edu/class\\_use/solutions.html](http://press.princeton.edu/class_use/solutions.html)

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The classic literature on predation dealt almost exclusively with solitary predators and their prey. Going back to Lotka-Volterra and optimal foraging theory, the theory about predation, including predator-prey population dynamics, was developed for solitary species. Various consequences of sociality for predators have been considered only recently. Similarly, while it was long recognized that prey species can benefit from living in groups, research on the adaptive value of sociality for prey species mostly emerged in the 1970s. The main theme of this book is the various ways that predators and prey may benefit from living in groups. The first part focusses on predators and explores how group membership influences predation success rate, from searching to subduing prey. The second part focusses on how prey in groups can detect and escape predators. The final section explores group size and composition and how individuals respond over evolutionary times to the challenges posed by chasing or being chased by animals in groups. This book will help the reader understand current issues in social predation theory and provide a synthesis of the literature across a broad range of animal taxa. Includes the whole taxonomical range rather than limiting it to a select few Features in-depth analysis that allows a better understanding of many subtleties surrounding the issues related to social predation Presents both models and empirical results while covering the extensive predator and prey literature Contains extensive illustrations and separate boxes that cover more technical features, i.e., to present models and review

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results

Although biologists recognize evolutionary ecology by name, many only have a limited understanding of its conceptual roots and historical development. *Conceptual Breakthroughs in Evolutionary Ecology* fills that knowledge gap in a thought-provoking and readable format. Written by a world-renowned evolutionary ecologist, this book embodies a unique blend of expertise in combining theory and experiment, population genetics and ecology. Following an easily-accessible structure, this book encapsulates and chronologizes the history behind evolutionary ecology. It also focuses on the integration of age-structure and density-dependent selection into an understanding of life-history evolution. Covers over 60 seminal breakthroughs and paradigm shifts in the field of evolutionary biology and ecology Modular format permits ready access to each described subject Historical overview of a field whose concepts are central to all of biology and relevant to a broad audience of biologists, science historians, and philosophers of science

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