

Study Guide

Biology 30 Unit D: Population and Community Dynamics

This is a list of some things you'll want to be able to do for the unit exam. This is not a complete list of everything that will be on the exam. If you can check off most of these boxes without looking at your notes, you have a good opportunity to do well on the exam.

Unit D: Population and Community Dynamics

Students must be able to:

- ☐ Recall all definitions, such as: system, equilibrium, population, Hardy-Weinberg principle, community, individual, gene pool, natural selection, synthesis, suicide toxin, natality, mortality, immigration, diversity, emigration, r-selected, K-selected
- ☐ Define the Hardy-Weinberg principle. Explain why it's significant in population gene-pool stability and nonequilibrium values
- ☐ Explain how genetic drift, natural selection, gene flow, nonrandom mating, bottleneck effects, founder effects, mutation, and mutation all contribute to the genetic diversity of a gene pool
- ☐ Use the Hardy-Weinberg principle to determine allele and genotype frequency in a set of data by using the equations $p + q = 1$ and $p^2 + 2pq + q^2 = 1$
- ☐ Explain how mutations and natural selection are at the molecular level and how significant they are over time
- ☐ Correctly apply significant digits when making calculations
- ☐ Explain predator-prey and consumer-producer relationships
- ☐ Define commensalism, mutualism, and parasitism
- ☐ Differentiate between interspecific and intraspecific competition
- ☐ Give examples of defence mechanisms and how they affect predation and competition
- ☐ Explain how population structures may change over time or day as a climax community
- ☐ Define primary and secondary succession
- ☐ Analyse succession patterns over time
- ☐ Calculate change in population size using the formula: $\Delta N = [\text{natality} + \text{immigration}] - [\text{mortality} + \text{emigration}]$
- ☐ Use formulas to calculate: growth rate, per capita growth rate, and population density
- ☐ Identify a growth pattern as either logistic (S-shaped) or exponential (J-shaped)
- ☐ Explain the difference between open and closed populations
- ☐ Identify a species as r or K selected based on characteristics or reproductive strategies
- ☐ Evaluate how environmental factors can affect population growth
- ☐ Analyse graphical data on r or K selected species

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Brian D. Fath



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Guide to Sources for Agricultural and Biological Research J. Richard Blanchard,Lois Farrell,2023-07-28 **Analysis and Management of Animal Populations** Byron K. Williams,James D. Nichols,Michael James Conroy,Michael J. Conroy,2002-04-17 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations It covers the modeling of population responses to management actions the estimation of quantities needed in the modeling effort and the application of these estimates and models to the development of sound management decisions The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations Integrates population modeling parameter estimation and decision theoretic approaches to management in a single cohesive framework Provides authoritative state of the art descriptions of quantitative approaches to modeling estimation and decision making Emphasizes the role of mathematical

modeling in the conduct of science and management Utilizes a unifying biological context consistent mathematical notation and numerous biological examples **Integrated Population Models** Michael Schaub, Marc Kéry, 2021-11-12 Integrated Population Models Theory and Ecological Applications with R and JAGS is the first book on integrated population models which constitute a powerful framework for combining multiple data sets from the population and the individual levels to estimate demographic parameters and population size and trends These models identify drivers of population dynamics and forecast the composition and trajectory of a population Written by two population ecologists with expertise on integrated population modeling this book provides a comprehensive synthesis of the relevant theory of integrated population models with an extensive overview of practical applications using Bayesian methods by means of case studies The book contains fully documented complete code for fitting all models in the free software R and JAGS It also includes all required code for pre and post model fitting analysis Integrated Population Models is an invaluable reference for researchers and practitioners involved in population analysis and for graduate level students in ecology conservation biology wildlife management and related fields The text is ideal for self study and advanced graduate level courses Offers practical and accessible ecological applications of IPMs integrated population models Provides full documentation of analyzed code in the Bayesian framework Written and structured for an easy approach to the subject especially for non statisticians **Marine Fisheries Review** ,1986

Demographic Methods Across the Tree of Life Roberto Salguero-Gómez, Marlène Gamelon, 2021 This novel book provides the reader with the fundamentals of data collection model construction analyses and interpretation across a wide repertoire of demographic techniques and protocols clearly guided throughout with fully reproducible R scripts **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70 **Ecology of Wildlife Host-Parasite Interactions** Bryan T. Grenfell, 1995 This new collection of articles edited by Bryan T Grenfell includes Factors affecting the evolution of virulence nematode parasites of fig wasps Maintenance of a microparasite infecting several host species in the Seregeti Wildlife disease and conservation in Hawaii pathogenicity of avian malaria Plasmodium relictum in experimentally infected Iiwi Vestiaria coccinea *Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute* National Heart, Lung, and Blood Institute, 1978 **Animal Behavior Desk Reference** Edward M. Barrows, 2011-04-26 Words are our tools and as a minimum we should use clean tools We should know what we mean and what we do not and we must forearm ourselves against the traps that language sets us The Need for Precise Terminology Austin 1957 7 8 It follows that for effective and efficient communication people should have or at least understand the same precise terminology Such terminology is crucial for the advancement of basic theoretical and applied science yet too often there is ambiguity between scientific and common definitions and even discrepancies in the scientific literature Providing a common ground and platform for precise scientific communication in animal behavior ecology evolution and related branches of biology Animal Behavior Desk Reference A

Dictionary of Behavior Ecology and Evolution Third Edition contains more than 800 new terms and definitions 48 new figures and thousands of additions and improvements Using a dictionary format to present definitions in a standard easily accessible manner the book's main body emphasizes conceptual terms rather than anatomical parts or taxonomic terms and focuses on nouns rather than verbs or adjectives Term hierarchies are handled with bulleted entries and terms with multiple definitions are included as superscripted entries All sources are cited and most are paraphrased to conform to uniform style and length The dictionary also includes nontechnical and obsolete terms synonyms pronunciations and notes and comments as well as etymologies term originators and related facts Appendices address organism names organizations and databases Devoted to the precise and correct use of scientific language this third edition of a bestselling standard enables students and scientists alike to communicate their findings and promote the efficient advancement of science *Peterson's Annual Guides to Graduate Study*, 1978 This vol Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources Current Catalog National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965-70 **Methods in Comparative Plant Population Ecology** David J. Gibson, 2015 A user friendly introduction to the methodology of plant population ecology research **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994 **Encyclopedia of Ecology** Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e.g. climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

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