

## 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

# Population Dynamics Study Guide Biology

**RJ Shavelson**



## **Population Dynamics Study Guide Biology:**

The Wildlife Techniques Manual Nova J. Silvy, 2012-03 A standard text in a variety of courses the Techniques Manual as it is commonly called covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages To effectively incorporate the explosion of new information in the wildlife profession this latest edition is logically organized into a two volume set Volume 1 is devoted to research techniques and Volume 2 focuses on management methodologies

**Guide to Sources for Agricultural and Biological Research** J. Richard Blanchard, Lois Farrell, 2023-07-28 *Resources in Education*, 1986

**Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute** National Heart, Lung, and Blood Institute, 1978

**Current Catalog** National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965-70

Peterson's Guide to Graduate Programs in the Biological Sciences 1997 Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it's been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master's doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology

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     Undergraduate Announcement University of Michigan--Dearborn,1983     *Theoretical Approaches to Biological Control* Bradford A. Hawkins,Howard V. Cornell,2008-10-14 Biological control is the suppression of pest populations using predators parasitoids and pathogens Historically biological control has largely been on a trial and error basis and has failed more often than it has succeeded However by developing theories based upon fundamental population principles and the biological characteristics of the pest and agent we can gain a much better understanding of when and how to use biological control This book gathers together recent theoretical developments and provides a balanced guide to the important issues that need to be considered in applying ecological theory to biological control It will be a source of productive and stimulating thought for all those interested in pest management theoretical ecology and population biology

**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     **Dispersal Ecology** British Ecological Society. Symposium,2002-08 Dispersal has become central to many questions in theoretical and applied ecology in recent years In this volume a team of leading ecologists aim to provide the advanced student and researcher with a comprehensive review of dispersal and its implications for modern ecology     *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994     **FishBase 2000** R. Froese,Daniel Pauly,2000 An information system with key data on the biology of all fishes Covers more than 25 000 species of fish     *Environmental Protection Research Catalog: Indexes* Smithsonian Science Information Exchange,1972     **Conference proceedings. New perspectives in science education 7th edition** Pixel,2018-03-19     **Marine Fisheries Review** ,1986     Wildlife Management and Conservation Paul R. Krausman,James W. Cain,2022-09-20 Published in Association with The Wildlife Society     **Research Awards Index** ,1981     Geographical

Abstracts ,1978      Transactions on Computational Systems Biology VIII Corrado Priami,2007-10-28 The LNCS journal  
Transactions on Computational Systems Biology is devoted to inter and multidisciplinary research in the fields of computer science and life sciences It supports a paradigmatic shift in the techniques from computer and information science to cope with the new challenges arising from the systems oriented point of view of biological phenomena The six papers selected for this special issue cover a broad range of topics

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