

BIO 189 Final Study Guide

It is recommended that you review this study guide to prepare for your midterm in the next module. The final covers learning concepts in Modules 4-7 (Chapters 7-10 in *Biology Today and Tomorrow With Physiology* (6th ed.).

As a reminder, you can access the readings through the Read section of each module.

Note: Specific topics can be searched within the eBook by utilizing the search bar located in the upper right-hand corner of the screen

Module 4: DNA

Key Terms – Chapter 7

autosomes centromere chromosome number chromosomes clones differentiation	diploid DNA polymerase DNA replication DNA sequence histones karyotype mutation	primer sex chromosomes sister chromatids somatic cell nuclear transfer (SCNT)
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- **Develop an understanding of the history of and contributors to the discovery of the structure and function of DNA**
 - What is Erwin Chargaff's rules for base pairing? How do we calculate DNA nucleotide composition?
 - What did Watson and Crick develop?
 - What was Rosalind Franklin's major contribution?
 - What did Hershey & Chase contribute to the discovery of DNA?
- **Describe the leveled organization of genes**
 - What are sister chromatids? How are they organized within the chromosome?
 - What is a centromere?
 - What are histones?
 - What are the components of a nucleotide? Which component differentiates each nucleotide?
 - What is base pairing? What are the nucleotide bases? How are the bases different between RNA and DNA?
 - What type of bond hold the DNA base pairs together?
 - How can the sequence of bases contribute to the diversity among species?
- **Explain the arrangement of chromosomes in humans and the results of abnormal chromosome number.**

Bio Second Semester Final Study Guide

Purdue University



Bio Second Semester Final Study Guide:

The new biology; second semester study guide. Official guide for the college of the air course presented over the CBS-TV network under the auspices of the Learning Resources Institute and the American Institute of Biological Sciences Ray Koppelman,1962 *Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation A Study of Biology Notebook Work in New York State Don Otto Baird,1929 **Circular of Information of the Bureau of Education, for ...** ,1900 **The Annual Catalogue of Purdue University, Lafayette, Indiana ... with Announcements for ...** Purdue University,1917 **Announcements for the Year ...** Purdue University,1912 **Ssg- Human Biology 6E Student Study Guide** Chiras,2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material **The School of Educational Agriculture at River Falls, Wis** ,1913 Biology II Alfred E. Zietlow,1963 The University of the State of New York Sidney Sherwood,1900

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