

BIO 201: Human Anatomy & Physiology I

Course-based Faculty Expectations

Course Description: This course is the study of human anatomy and physiology. The human body is organized into systems that interact to maintain homeostasis. These systems include the skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, endocrine, and lymphatic systems. Students will learn how these systems interact to maintain homeostasis.

Learning Objectives

Prerequisite: None

Prerequisite: None

Competencies: None

None. Students are responsible for approaching all assigned material.

Course Objectives

Most BIO 201 students have previous knowledge in biology, math, and science, and these knowledge areas will also support health sciences. Homeostasis, cellular membranes, and processes. The students will understand the basic human systems. These human systems are the skeletal system, muscular system, nervous system, circulatory system, respiratory system, digestive system, urinary system, endocrine system, and lymphatic system.

Course Learning Objectives

Course competencies are those outcomes students will be able to:

- 1. Explain the structure of the human body.
- 2. Describe and compare structures of homeostasis.
- 3. Describe the structure and function of cells including cell types, processes, and organelles, and explain the biological nature of cells.
- 4. Describe the structure and function of proteins.
- 5. Describe the structure of membranes, cellular junctions, and organelles.
- 6. Describe the structure and function of the nervous system.
- 7. Describe the structure and function of the muscular system.
- 8. Describe the structure and function of the skeletal system.
- 9. Describe the structure and function of the circulatory system.
- 10. Describe the structure and function of the urinary system.
- 11. Describe the structure and function of the digestive system.
- 12. Describe the structure and function of the lymphatic system.
- 13. Explain the processes and pathways the accomplish the following: homeostasis, metabolism, and nutrient transport.

Discussions

Discussions: Anatomy & Physiology: Homeostasis and Energy content measured by Metabolism. This section, 100% Grade.

They will be in the format of written posts. If you would like to be a participant in the discussion, please leave a response for your teacher to communicate from those of appropriate and the student group.

Bio 201 Laboratory Manual

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Bio 201 Laboratory Manual:

Bio 201 Cell Biology Lab Manual 2013 F/Suny Buffalo Hennessey,2013-02-08 **BIO 201** Meghann Jarchow,Colleen Jacks,Brenda Kelly,2006 Human Anatomy and PhysiologyL Kim Cooper,Jonathan Harrison,Miles Orchinik,Richard Satter,1999-07-01 **Biology 201** Kathleen M. Galvin,1999 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 *Laboratory Investigations in Molecular Biology* Steven A. Williams,Barton Elliott Slatko,John R. McCarrey,2007 Laboratory Investigations in Molecular Biology presents well tested protocols in molecular biology that are commonly used in currently active research labs It is an ideal laboratory manual for college level courses in molecular biology Because of the modular organization of the manual laboratory courses can be assembled that would be ideal for science professionals graduate students undergraduate students and even advanced high school students in AP courses The manual is also intended to be useful as a laboratory bench reference The experiments are designed to guide students through realistic research projects and to provide students with instruction in methods and approaches that can be immediately translated into research projects conducted in modern research laboratories Although these experiments have been conducted and optimized over 20 years of teaching the New England Biolabs Molecular Biology Summer Workshops they are real research projects not canned experiments Based on extensive teaching experience using these protocols the authors have found that conducting these experiments as described in these protocols serves to effectively instruct students and science professions in the basic methods of molecular biology An additional unique feature is that the protocols described in the manual are accompanied by available reagent kits that provide quality tested pre packaged reagents to ensure the successful application of these protocols in a laboratory course setting

Annual Catalogue of the Agricultural and Mechanical College of Texas. Session ... Agricultural and Mechanical College of Texas,1913

Annual Catalog Virginia. State University, Petersburg,1931 Manual of Microbiology Kanika Sharma,2007 This book is an excellent supplementary textbook written in simple language and easy to understand even for beginners All topics related to microbiology are covered general aspects like techniques culture and identification of bacteria bacterial genetics water soil and food microbiology and the study of viruses and fungi Medical microbiology is also discussed dealing with sample collection and identification of common pathogenic bacteria The book has a unique style a basic idea of the topic is given followed by various laboratory methods presented systematically keeping in mind problems faced by students and also stressing the do s and don ts whilst carrying out various experiments Diagrams and flow charges help to make learning easier and more interesting And the final chapters contain instructions on practical exercises written to enable the student to perform them with confidence and ease This is a superb step by step guide for microbiology students **A Laboratory Guide in Bacteriology Particularly for Students in Dentistry** Joseph Luke Teasdale Appleton,Carrie Kirk Bryant,1928

Neuroprotection Methods and Protocols Tiziana Borsello,2007-08-08 This book examines current research into the role of

neuronal death in cell signaling pathways and its role in neurodegenerative diseases such as Alzheimer s and Parkinson s After introducing neurodegenerative traumatic and ischemic disorders the authors cover in vitro and animal systems and cellular and molecular mechanisms Laboratory Manual for Human Biology Bert Atsma,Sandra Hsu,2002 A variety of approximately 30 lab activities to complete any human biology course **A Laboratory Guide in Pharmacology** Torald Hermann Sollmann,1917 *Human Anatomy and Physiology, Laboratory Manual (Pk W/Cd)(Custom Rio Salado Community College)* Marieb,2008 General Biology I Charles Keller,2015

Introduction to Elementary Practical Biology Charles Wright Dodge,1894

Coelenterate Biology 2003 Daphne G. Fautin,Jane A. Westfall,Paulyne Cartwright,Marymegan Daly,Charles R. Wyettenbach,2007-11-07

This volume the proceedings of the Seventh International Conference on Coelenterate Biology is organized as the meeting was around six topics Because several sessions of ICCB7 constituted the 2003 North American meeting of the International Society for Reef Studies the subject of coral reefs is strongly represented in the section on Ecology The other themes are Neurobiology Reproduction Development and Life Cycles Pioneers in Coelenterate Biology Cnidae and Taxonomy and Systematics Ctenophores as well as representatives of all four classes of cnidarians are among the study subjects of the research reported in this volume The theme of variability runs through the volume be it in cnidae morphology behavior neurobiology ecology colony form or reproduction variability is a major reason these animals are so interesting and challenging to study This is a must read resource for anyone doing research or planning to do research on cnidarians and ctenophores *Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress.* Copyright Office,1978

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