Ready for FALL Classes!

ZOOLOGY
By CLARENCE J. GOODNIGHT, A.B., A.M., Ph.D., Associate Professor of Zoology, Purdue University; and MARIE L. GOODNIGHT, Former Instructor in General Biology, Purdue University.

600 pages, 210 illustrations. (In Preparation.)

Based on teaching experiences covering a wide range of courses and types of students, the book is planned in such a way that the various sections may be studied in any desired order.

First is presented a general introduction to the subject. Here the authors try to indicate the relationship of zoology to the rest of knowledge. The practical importance of the subject as well as its intellectual value are stressed. Here a brief presentation of chemistry to later understanding, a brief classification of animals for the students' future orientation, the importance of scientific method, and the general makeup of the mammalian body are discussed. Following this is a detailed study of each of the mammalian organ systems. Anatomy and physiology are integrated so that the student is able to achieve an understanding of his body functions. The authors then return to the study of the individual cell, its function and its importance in the science of heredity and evolution. Next comes the animal kingdom—with emphasis upon the overall evolution. Ecology has been considered.

MICROBIOLOGY
By LOUIS P. GEBHARDT, Ph.D., M.D., Professor and Head, Department of Bacteriology, College of Medicine, University of Utah; and DEAN A. ANDERSON, Ph.D., Professor of Biology, Chairman, Division of Natural Science, Los Angeles, State College of Applied Arts and Sciences.

413 pages, 49 illustrations. $5.75.

The basic and fundamental concepts of microbiology are presented in such a manner that the average college student, with few prerequisites in either chemistry or biology, can digest and fully understand. Practical applications of microbiology in the students' daily life are stressed so that not only the "scientific" but also the "practical" point of view is gained by them.

The first section deals with the basic and fundamental principles of microbiology; the second with sanitary and industrial microbiology; the third with the disease producing microorganisms—pathogenic microbiology. All three aspects are important for a rounded general knowledge of microbiology.

Laboratory Experiments in PHYSIOLOGY
By W. D. ZOETHOUT, Ph.D., Professor Emeritus of Physiology in the Chicago College of Dental Surgery (Loyola University).


Although designed to accompany Zoethout-Tuttle "Textbook of Physiology" this laboratory guide may be used with any other textbook. In this revision extensive changes have been made in the chapters dealing with muscles, nerves, blood and circulation.

The present manual sets forth more work than can generally be completed by the average student in the allotted time. This will enable more instructors to select such work as may meet, in their opinion, the needs, interests, and abilities of their students.

Contents: PART I—APPARATUS. GENERAL, CONTRACTILITY; MUSCLES. CONDUCTIVITY; PHYSIOLOGY of NERVES. THE CENTRAL NERVOUS SYSTEM. BLOOD. CIRCULATION. RESPIRATION. THE RECEPTORS; SENSE ORGANS. ALIMENTARY CANAL. URINE AND SWEAT SECRETION. PART II—CARBOHYDRATES. FATS. PROTEINS. COMPOSITION OF VARIOUS SUBSTANCES. DIGESTION. URINE.

Laboratory Instructions in MICROBIOLOGY
By LOUIS P. GEBHARDT and DEAN A. ANDERSON.

253 pages. $3.25.

This manual embodies a large number of experiments to demonstrate basic microbiological principles—yet requires only a minimum of equipment, materials and effort. While designed as a companion to "MICROBIOLOGY" by the same authors, it can be used successfully with other texts.

Objectives which the authors had in mind are: To maintain student interest at as high a level as possible by making extensive use of microorganisms and materials which are around us rather than relying entirely upon pure cultures and sterile media supplied by the instructor. To include those exercises which will provide the student with some experience in performing the basic microbiological techniques so that on completion of the course he will have acquired many of the fundamental skills peculiar to microbiology. To emphasize practical application along with theoretical concepts. To provide many more experiments than can be performed in the time allotted in order to permit the teacher to select the exercises most suited to his or her purposes.

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