Students in two-semester allied health–related programs typically encounter a fast-paced anatomy and physiology course that leaves little time for leisurely learning. These students are intently focused on achieving their goals, which requires a course that includes a brief, hands-on laboratory experience to flesh-out and clarify the lecture sessions. This challenge is what provided the impetus for developing this brief laboratory manual.

Basic Pedagogical Approach

The Sixth Edition offers a variety of experiments to give the instructor the flexibility to choose which will best supplement what is being taught in lecture. This manual is a stand-alone resource that can complement any textbook. Because each experiment is preceded by pertinent background information, students will not find it necessary to carry their textbooks to the lab.

Although length and content have been rigorously controlled, the 27 exercises in this manual still provide fairly complete coverage of the routine topics of human anatomy and physiology.

For instructors who wish their students to have experience using a microscope, this manual also includes a complete exercise on its use and care (see Appendix A).

Pedagogy and Special Features

1. A revised art program includes figures and illustrations of exceptional detail and color, including tissue tables with photomicrographs and realistic muscle art. Large illustrations highlight and differentiate important structures and help students recognize important relationships between structure and function.

2. Each exercise is preceded by a list of materials needed for conducting the laboratory.

3. Learning objectives introduce each exercise to focus the student’s attention on the important lessons to “take home” from the exercise.

4. Key terms appear in boldface print, and each term is defined when introduced.

5. Selected photographs and isolated organ specimens for student dissection supplement the diagrams.

6. Body structures are studied from simple to complex. Histology lessons will be expedited by slides set up by the instructor at demonstration areas for student viewing, so students do not have to spend time trying to find the “right” section. These, along with physiology experiments (written to be conducted in limited time periods and with inexpensive, widely available equipment and supplies) allow ample opportunity for student observation, manipulation, and experimentation.

7. All exercises involving body fluids (blood, saliva, etc.) incorporate current Centers for Disease Control and Prevention guidelines for handling body fluids. A safety icon alerts students to observe special precautions.

8. An Instructor’s Guide is available to instructors upon request (0-13-425743-X). This Guide contains answers to activity and review sheet questions, and information on laboratory supply houses.

For information on creating a custom version of this manual, visit www.pearsonhighered.com/collections/, or contact your Pearson representative for details.

New to the Sixth Edition

• A workbook-style design makes it easy to see where sections, lab activities, and drawing activities begin and end.

• Narrative text is pulled out and placed into tables, where possible, as part of the improved, student-friendly design.

• Updated overall art program includes color added to many Review Sheet figures to more clearly delineate key structures.

• Improved artwork includes all necessary labels for a two-semester lab.

Also Available

• The Anatomy & Physiology Coloring Workbook, Eleventh Edition by Elaine Marieb. (0-321-96077-7)

• The Anatomy Coloring Book, Fourth Edition by Wynn Kapit and Lawrence Elson. (0-321-83201-9)

• The Physiology Coloring Book, Second Edition by Wynn Kapit, Robert Macey, and Esmail Meisami. (0-321-03663-8)

• MasteringA&P™ for Anatomy & Physiology, Sixth Edition is highly recommended. Mastering is the most effective and widely used online homework, tutorial, and assessment system for the sciences. To learn more, ask your Pearson representative for details.

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As always, we invite users of this edition to send us their comments and suggestions for subsequent editions.

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