

Preclinical Speech Science Anatomy Physiology Acoustics Perception

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Preclinical Speech Science Anatomy, Physiology, Acoustics, Perception

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Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Third Edition is a high-quality text for undergraduate and graduate courses in speech and hearing science. Written in a user-friendly style by distinguished scientists/clinicians who have taught the course to thousands of students at premier academic programs, it is the text of choice for instructors and students. Additionally, it is applicable to a broad range of courses that cover the anatomy and physiology of speech production, speech acoustics, and swallowing as well as those that cover the hearing mechanism, psychoacoustics, and speech perception. The material in this book is designed to help future speech- language pathologists and audiologists to understand the science that underpins their work and provide a framework for the evaluation and management of their future clients. It provides all the information students need to be fully ready for their clinical practicum training. KEY FEATURES: Describes scientific principles explicitly and in translational terms that emphasize their relevance to clinical practice. Features beautiful original, full-color illustrations designed to be instructive learning tools. Incorporates analogies that aid thinking about processes from different perspectives. Features "sidetracks" that contain clinical insights and relate interesting historical and contemporary facts to the discipline of speech and hearing science. Provides a framework for conceptualizing the uses, subsystems, and levels of observation of speech production, hearing, and swallowing. Includes material that is ideal for preparing both undergraduates and graduates for clinical study. NEW TO THIS EDITION: Three new, up-to-date, and comprehensive chapters on Auditory Anatomy and Physiology; Auditory Psychophysics; and Speech Physiology Measurement and Analysis. All chapters fully revised including updated references and new full-color, detailed images. A

Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Third Edition is a high-quality text for undergraduate and graduate courses in speech and hearing science. Written in a user-friendly style by distinguished scientists/clinicians who have taught the course to thousands of students at premier academic programs, it is the text of choice for instructors and students. Additionally, it is applicable to a broad range of courses that cover the anatomy and physiology of speech production, speech acoustics, and swallowing as well as those that cover the hearing mechanism, psychoacoustics, and speech perception. The material in this book is designed to help future speech-language pathologists and audiologists to understand the science that underpins their work and provide a framework for the evaluation and management of their future clients. It provides all the information students need to be fully ready for their clinical practicum training. KEY FEATURES: Describes scientific principles explicitly and in translational terms that emphasize their relevance to clinical practice.Features beautiful original, full-color illustrations designed to be instructive learning tools.Incorporates analogies that aid thinking about processes from different perspectives.Features "sidetracks" that contain clinical insights and relate interesting historical and contemporary facts to the discipline of speech and hearing science.Provides a framework for conceptualizing the uses, subsystems, and levels of observation of speech production, hearing, and swallowing.Includes material that is ideal for preparing both undergraduates and graduates for clinical study. NEW TO THE THIRD EDITION: Three new, up-to-date, and comprehensive chapters on auditory anatomy and physiology, auditory psychophysics, and speech physiology measurement and analysis.All chapters fully revised, including updated references and new full-color, detailed images.*Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

The Preclinical Speech Science Workbook, Third Edition is a natural companion to the Preclinical Speech Science, Third Edition textbook, designed to help students integrate, apply, and go beyond the material presented in the textbook. The workbook contains a variety of activities, including anatomical labeling, measurement of physiologic and acoustic data, interpretation of graphs, and the conduct of simple experiments (without the need for special equipment). Comprehensive answers are also included for each chapter. The third edition of the workbook reflects the changes found in the textbook and includes activities to correspond with the three new textbook chapters on Auditory Anatomy and Physiology, Auditory Psychophysics, and Speech Physiology Measurement and Analysis, as well as revised content throughout the existing chapters. The activities in Preclinical Speech Science Workbook, Third Edition will help students begin to make the transition from traditional classroom and textbook learners to active participants in their development toward becoming speech-language pathologists and audiologists.

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This comprehensive textbook for undergraduate-level anatomy and physiology courses in communication sciences and disorders programs is neither oversimplified nor excessively detailed. The book is written with clinical endpoints in mind, and only those topics that are ultimately important to understanding, evaluating, and managing clients with speech, hearing, and swallowing disorders are covered. Drawing on material from the best-selling Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Third Edition textbook (Hixon, Weismer, & Hoyt, 2020), the authors have provided chapters that cover basic concepts in anatomy and physiology, each of the speech subsystems (respiratory, laryngeal, velopharyngeal-nasal, and pharyngeal oral), the auditory system, swallowing physiology, and neural structures and mechanisms that support speech/language, hearing, and swallowing. The text was carefully crafted to meet the needs of entry-level university students and the figures were designed to feature the key elements of the concepts discussed in the text. New to the Second Edition: * New author, Brad Story, PhD, who brings fresh ideas and perspectives to the book * New introductory chapter that covers several basic concepts of anatomy and physiology * More than 25 videos that demonstrate key concepts in the text, most of which were created specifically for this book * Clinical Notes sections that highlight the relevance of anatomy and physiology to the clinical practices of speech-language pathology and audiology * Nearly 100 new or updated illustrations * Extensively revised text to enhance clarity and provide support for beginning students * Updated material based on recent literature Key Features: * Numerous beautiful, full-color illustrations * Complex information presented clearly and concisely, in an easy-to-understand manner * Clinical applications to basic anatomy and physiology are woven throughout the book Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

ANATOMY AND PHYSIOLOGY FOR SPEECH, LANGUAGE, AND HEARING, Fifth Edition, provides a solid foundation in anatomical and physiological principles relevant to communication sciences and disorders. Ideal for speech-language pathology and audiology students, as well as practicing clinicians, the text integrates clinical information with everyday experiences to reveal how anatomy and physiology relate to the speech, language, and hearing systems. Combining comprehensive coverage with abundant, full-color illustrations and a strong practical focus, the text makes complex material approachable even for students with little or no background in anatomy and physiology. Thoroughly updated to reflect current trends, techniques, and best practices, the Fifth Edition of this acclaimed text is supported by innovative Anatesse learning software—now accessible online via PC, Mac, and tablet devices—featuring tutorials, interactive quizzes, and other resources to help students of all learning styles master the material and prepare for professional licensing exams. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Accompanying CD-ROM contains ... "the complete text and illustrations ... in fully searchable PDF files."--Page 4 of cover.

Audiology: Science to Practice, Third Edition is a comprehensive and challenging textbook for undergraduate students in audiology and hearing science, for graduate students beginning an AuD program, especially those who may not have a background in the subject, and for other health care professionals who would benefit by a better understanding of hearing science and audiology practices. This textbook is written in a style that tries to make new or difficult concepts relatively easy to understand. The approach is to keep it readable and to punctuate the text with useful figures and tables. This textbook seeks to provide a solid foundation in hearing science and clinical audiology, and is an excellent resource for those preparing for the Audiology Praxis Exam. It also serves as a companion to the Audiology Workbook, Third Edition, by Dr. Steven Kramer and Dr. Larry Small. From science to practice, this textbook covers anatomy and physiology of the auditory and vestibular systems, acoustic properties and perception of sounds, audiometry and speech measures, audiogram interpretations, masking, outer and middle ear assessments, otoacoustic emissions and auditory brainstem responses, hearing screening, hearing aids, cochlear and other implantable devices, and auditory disorders supported with expected audiologic data. The reader is also introduced to the profession of audiology and what it means to work as an audiologist. Where appropriate, variations in procedures for pediatrics are presented. NEW TO THIS EDITION The third edition of Audiology: Science to Practice has been extensively revised from the previous edition. The authors systematically reviewed each of the chapters from the previous edition to expand, update, and reorganize the material to make it even more useful to the student new to audiology, and at the same time continues to be more comprehensive than one might find in other introductory texts on audiology. The authors retained the features that worked well in previous editions, including an easy to read format, key learning objectives, and synopses within each chapter with bulleted highlights for review. Chapters are now organized in a more traditional sequence beginning with information about the profession of audiology, followed by acoustics, anatomy/physiology, and an expanded coverage of clinical audiology. References and figures have been updated, including photos of new hearing instruments and amplification devices. The book now has a more beautiful 2-color layout. This edition has four new chapters: Chapter 10. Outer and Middle Ear AssessmentChapter 11. Evoked Physiologic ResponsesChapter 15. Implantable DevicesChapter 16. Vestibular System. Another substantive change includes a revision to Chapter 14 on Hearing Aids to make it more appropriate for the undergraduate student or others who want an overview of this important part of audiology. *Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

This comprehensive textbook for undergraduate-level anatomy and physiology courses in communication sciences and disorders programs is neither oversimplified nor excessively detailed. The book is written with clinical endpoints in mind, and only those topics that are ultimately important to understanding, evaluating, and managing clients with speech, hearing, and swallowing disorders are covered. Drawn from the best-selling Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Second Edition textbook (Hixon, Weismer, & Hoyt, 2014), the authors distilled and simplified the chapters on breathing and speech production, laryngeal function and speech production, velopharyngeal-nasal function and speech production, pharyngeal-oral function and speech production, brain structures and mechanisms, and swallowing to ensure they are approachable for entry-level students. They also added a new chapter on the anatomy and physiology of the auditory system. Key Features: Numerous beautiful, full-color illustrationsPresents complex information clearly in a concise, easy-to-understand mannerWritten with a practical focus in mindDisclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

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