



Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Second Edition

By Thomas J. Hixon, Gary Weismer, Jeannette D. Hoit

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Preclinical Speech Science: Anatomy, Physiology, Acoustics, Perception, now in its second edition, is the text of choice for undergraduate and graduate courses in speech science. Written in a user-friendly style by three distinguished scientists/editors/ clinicians who have taught the course to thousands of students at premier educational programs, the text comprehensively covers anatomy, physiology, acoustics, perception, and swallowing. This book helps speech-language pathologists in training understand the science that underpins their work and provides a framework for the evaluation and management of their future clients. It provides all that instructors need to ensure that their students are fully ready for their clinical practicum training.

- Describes scientific principles explicitly and in translational terms that emphasize their relevance to clinical practice
- Features original, full-color illustrations and artwork designed to be instructive learning tools
- Includes clinical scenarios woven into the text to emphasize the relevance of the concepts presented and focus the discussion on humanistic values
- Incorporates analogies that aid thinking about processes from different perspectives
- Features "sidetracks" that relate interesting historical and contemporary facts to the discipline of speech science
- Provides a framework for conceptualizing the uses, subsystems, and levels of observation of speech production, speech, and swallowing
- Includes material that is ideal for preparing both undergraduate and graduate for clinical study

The second edition of *Preclinical Speech Science* includes updates of existing chapters, plus a comprehensive, detailed new chapter titled "Brain Structures and Mechanisms for Speech, Language, and Hearing." As in the first edition chapters, this new chapter contains beautifully drawn, full-color, detailed artwork to facilitate the task of learning nervous system structures and physiology. The

chapter concludes with a unique section on a brain-based model of communication skills in humans.

With its new chapter, plus the updates to the first-edition chapters, *Preclinical Speech Science, Second Edition* has solidified its place as a leading textbook for undergraduate and graduate coursework in speech science.

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Editorial Review

Review

"... A text that can be used for both anatomy and speech science courses, provides thorough and clear explanations of speech production and speech perception, and addresses clinical topics through case studies at the beginning and end of each chapter. ... Graduate students and professionals will use it as a resource long after their undergraduate course work is complete. [Refers to the first edition.]" --Amy T. Neel, PhD, ASHA SID 5, Perspectives, (2008)

"This textbook is an easy-to-read, well-organized resource that would be appropriate for courses in both speech science and the anatomy/physiology of the speech mechanism. Summing up: Highly recommended. [Refers to the first edition.]" --I.G. Ashbaugh, Choice, (April 2009):

"Named to Doody's Core Titles in the Health Sciences 2013 list" --Doody's, (2013)

About the Author

Thomas J. Hixon, Ph.D., CCC-SLP (1940-2009) received his Ph.D. from the University of Iowa and did postdoctoral work in physiology at Harvard University. He was Professor Emeritus of Speech, Language, and Hearing Sciences and Dean Emeritus of the Graduate College at the University of Arizona and had been Head of the Department of Speech, Language, and Hearing Sciences, Director of the National Center for Neurogenic Communication Disorders, Director of Graduate Interdisciplinary Programs, Director of the Movement Neuroscience Program, Research Integrity Officer, and Associate Vice President for Research at the same institution. Dr. Hixon was a Fellow of the American Speech-Language-Hearing Association and was awarded Honors of the Association, the Council of Editors Award, two Journal Editors Awards from the Association for the outstanding article of the year, and a Career Teaching Award from the University of Arizona. Dr. Hixon served as Editor of the Journal of Speech and Hearing Research, Speech Section Editor of the Journal of Speech, Language, and Hearing Research, and an editorial reviewer and/or Associate Editor to over a dozen other speech and voice journals. His research interests centered on normal and abnormal speech production and the biomechanics of singing.

Gary Weismer, Ph.D., is Chair and Oros-Bascom Professor of Communication Sciences and Disorders (CSD) at the University of Wisconsin-Madison, Madison, Wisconsin. He received his bachelors and masters degrees at the Pennsylvania State University, and his doctorate from UW-Madison in 1975. Dr. Weismers research publications concern normal speech production, and speech production and intelligibility phenomena in persons with motor speech disorders. Dr. Weismer has twice been Associate Editor for the Journal of Speech, Language, and Hearing Research (previously the Journal of Speech and Hearing Research), was Associate Editor at Folia Phoniatica et Logopaedica (FPL) for seven years and in 2011 was named Editor in Chief of FPL. Dr. Weismer has won several teaching awards, including a mentoring award in the UW-Madison Honors program and several residence hall awards for outstanding teaching. Dr. Weismer is a member of the Executive Board of the International Association of Logopedics and Phoniatrics (IALP), and is a Fellow of the Acoustical Society of America.

Jeannette D. Hoit, Ph.D., CCC-SLP is a Professor in the Department of Speech, Language, and Hearing Sciences at the University of Arizona and a speech-language pathologist. Dr. Hoit received her B.A. in Anthropology from University of California at Los Angeles, her M.A. in Communicative Disorders from San Diego State University, her Ph.D. in Speech and Hearing Sciences from the University of Arizona, and pursued postdoctoral study in the Harvard School of Public Health Respiratory Biology Program and the Massachusetts Institute of Technology Speech Research Laboratory. Dr. Hoits research focuses on speech

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