The editor and publisher are extremely grateful to our contributors, who shared their time, wisdom, and love of medical terminology with us by writing chapters or providing other pieces of content for this textbook:

**Tammie Bolling, EdD, MBA/HCM, CBCS, CMAA, CHI**
Instructor
Business Systems Technology
Tennessee Technology Center at Jacksboro
Jacksboro, Tennessee

**Diane M. Gilmore, CMT, AHDI-F**
Director of Education
Med-Line School of Medical Transcription and Med-Line School of Business and Technology
Lake Havasu City, Arizona

**Tamra Greco**
Former Department Head and Instructor
Health Professions
Davenport University
Grand Rapids, Michigan

**Debbie Newcomb, MBA, CMM**
Assistant Professor
Ventura Community College
Ventura, California

**Linda A. Underhill, BS, NCMA**
Assistant Professor
Clinical Medical Assistant Technology
New England Institute of Technology
Warwick, Rhode Island

**Melinda Wray, BS, CMA (AAMA), RMA**
Department Head
Medical Assisting and Administration
ECPI College of Technology
Greensboro, North Carolina

**Diana Alagna, RN, RMA**
Medical Assisting Program Director
Medical Assisting
Branford Hall Career Institute
Southington, Connecticut

**Emily M. Ambizas, PharmD, CGP**
Associate Clinical Professor
Clinical Pharmacy Practice
College of Pharmacy and Allied Health Professions, St. John’s University
Queens, New York

**Elaine Appelle**
Retired Professor
Office of Technology
Nassau Community College
Garden City, New York

**Gerry A. Brasin, AS, CMA (AAMA), CPC**
Corporate Education Coordinator
Premier Education Group
Springfield, Massachusetts

**Joseph M. Brocavich, PharmD**
Associate Clinical Professor/Associate Dean for Pharmacy Programs
Clinical Pharmacy Practice
College of Pharmacy and Allied Health Professions, St. John’s University
Jamaica, New York

**Kathy Carter, MS**
Instructor
Life Sciences
Athens Technical College
Athens, Georgia

**Michael Covone, MEd, RT(R), CT**
Faculty
Health Sciences
Pennsylvania College of Technology
Williamsport, Pennsylvania

**Donna Domanke-Nuytten, RN, BSN, MSIMC**
Professor, Medical Assisting
Health Science Technology
Macomb Community College
Warren, Michigan

**Alycia Dotseth, BS**
Medical Terminology GTA
Occupational Therapy
Colorado State University
Fort Collins, Colorado

We would also like to thank our reviewers, many of whom provided valuable comments and suggestions throughout development of the manuscript, while others supplied feedback on the design of the book:

**Diana Alagna, RN, RMA**
Medical Assisting Program Director
Medical Assisting
Branford Hall Career Institute
Southington, Connecticut

**Emily M. Ambizas, PharmD, CGP**
Associate Clinical Professor
Clinical Pharmacy Practice
College of Pharmacy and Allied Health Professions, St. John’s University
Queens, New York

**Elaine Appelle**
Retired Professor
Office of Technology
Nassau Community College
Garden City, New York

**Gerry A. Brasin, AS, CMA (AAMA), CPC**
Corporate Education Coordinator
Premier Education Group
Springfield, Massachusetts

**Joseph M. Brocavich, PharmD**
Associate Clinical Professor/Associate Dean for Pharmacy Programs
Clinical Pharmacy Practice
College of Pharmacy and Allied Health Professions, St. John’s University
Jamaica, New York

**Kathy Carter, MS**
Instructor
Life Sciences
Athens Technical College
Athens, Georgia

**Michael Covone, MEd, RT(R), CT**
Faculty
Health Sciences
Pennsylvania College of Technology
Williamsport, Pennsylvania

**Donna Domanke-Nuytten, RN, BSN, MSIMC**
Professor, Medical Assisting
Health Science Technology
Macomb Community College
Warren, Michigan

**Alycia Dotseth, BS**
Medical Terminology GTA
Occupational Therapy
Colorado State University
Fort Collins, Colorado
Reviewers and Contributors

Marie Fenske, EdD, RRT
Director of Clinical Education/Faculty/Coordinator of Health Care Core
Respiratory Care and Health Care Core
GateWay Community College
Phoenix, Arizona

Cynthia Ferguson, RHIT
Instructor
Allied Health
Texas State Technical College
Sweetwater, Texas

Rebecca Giuliante, MS, RN, LCEP
Director, AHA Training Center and Program Development
Our Lady of the Lake Health Career Institute
Our Lady of the Lake College
Baton Rouge, Louisiana

Sheila Guillot, CAP/CPS
Instructor IV
Business and Technology
Lamar State College
Port Arthur, Texas

Sharon Harris-Pelliccia, BS, RPAC
Department Chair
Medical Studies
Mildred Elly
Albany, New York

Kathleen Holbrook
Director/Vice President
Andrews & Holbrook Training Corp.
Latham, New York

Susan Horn, AAS, CMA (AAMA)
Medical Program Coordinator
Medical/Education
Indiana Business College
Lafayette, Indiana

Jacqueline M. Johnson, CCMA, BA
Instructor
Office Information Technology
University of Cincinnati/Raymond Walters College/Blue Ash
Cincinnati, Ohio

Sandra Johnson, BAAS
Instructor
Health Information Technology
San Juan College
Farmington, New Mexico

Sandy Johnston, MSED, RHIA, CPC
Educator
Health Information Management
University of Kansas
Kansas City, Kansas

Carrol LaRowe, MBA, RRT, RCP
Director of Clinical Education
Respiratory Care
San Jacinto College
Pasadena, Texas

Tina Lewis, MT (ASCP)(AMT)
Medical Department Co-Director
Spencerian College
Louisville, Kentucky

Michelle Maguire McDaniel, LPN, HCC, BA, MA
Medical Assisting and Health Care Support Instructor
Health Sciences
Ivy Tech Community College of Indiana
Anderson, Indiana

Michelle Martin, MEd, MBA, RHIA, FAHIMA
Associate Professor
Health Informatics and Information Management
Louisiana Tech University
Ruston, LA

Lori McGowan, DPM
Adjunct Professor
Harrisburg Area Community College
Harrisburg, Pennsylvania

Linda L. Miedema, PhD
Provost
Institute of Nursing
Brevard Community College
Titusville, Florida

Pat Moody, RN
RN/Clinical Instructor
Allied Health
Athens Technical College
Athens, Georgia

Marcia Morse, MBA Health Care, BS, RMA (AMT)
Allied Health and Science
Davenport University
Caro, Michigan

Tamra Nasworthy, LPN, PHD, ABD
Nurse/Educator
Allied Health
Athens Technical College
Athens, Georgia

Arlene Normandin, CPC
Instructor, Allied Health
Medical Terminology, Billing and Coding
Quinebaug Valley Community College
Danielson, Connecticut

Elaine Olsakovsky, MA
Professor/Coordinator
Health Professions and Related Sciences
El Paso Community College
El Paso, Texas

David Peruski, RN, MSA, MSN
Associate Professor
Health and Wellness Division Chair
Delta College
University Center, Michigan

Virginia Przygocki, BS
Health and Wellness Chairperson
Health and Wellness
Delta College
University Center, Michigan

Heather Reinke, BSN
Nursing
Delta College
University Center, Michigan

Carol Ricke, MS
Coordinator of Administrative Assistant Program
Lead Business Instructor
Accounting and Business
Pratt Community College
Pratt, Kansas

Betty Rickey, RN, MSN
Professor of Nursing (Emeritus)
Health and Wellness Division
Delta College
University Center, Michigan

Laura Ristrom Goodman, MSSW
Curriculum Coordinator
Corporate Education
Pima Medical Institute
Tucson, Arizona
Patricia A. Sailors  
Health Science Instructor  
Health Services  
West Georgia Technical College  
Waco, Georgia

Laura Stoll, BS  
Adjunct Instructor  
Health and Wellness  
Delta College  
University Center, Michigan

Cindy Thompson, RN, RMA, MA, BS  
Certified Allied Health Instructor/  
Assistant Professor/Allied  
Health Coordinator  
Davenport University  
Saginaw, Michigan

Kate Tierney, CPC, CCS-P, CPC-P,  
CPht, CEHRS, CBCS, CMAA, CICS,  
COBGC, CGSC, CEMC, CEDC  
Certified Healthcare Instructor  
Denver, Colorado

Martha Vigneault, PhD  
Associate Professor  
Rehabilitative Health  
Community College of Rhode Island  
Newport, Rhode Island

Donna Walsworth, RN, BSN  
Instructor  
Adult Education  
Genesee Valley Educational  
Partnership  
Mt. Morris, New York

Janet E. Warner, RN, MSN  
Assistant Professor  
Nursing  
Southern Utah University  
Cedar City, Utah

Kari Williams, BS, DC  
Director  
Medical Office Technology  
Front Range Community College  
Longmont, Colorado