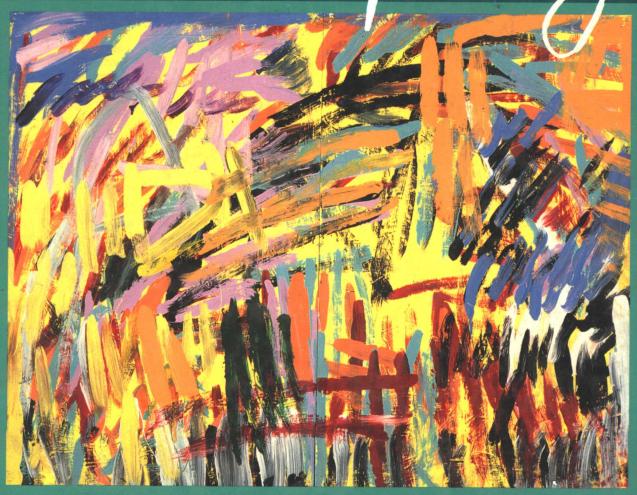
Human Exceptionality



Society, School, and Family 4/E

MICHAEL L. HARDMAN Clifford J. Drew M. Winston Egan Barbara Wolf

Fourth Edition

Human Exceptionality Society, School, and Family

MICHAEL L. HARDMAN

University of Utah

CLIFFORD J. DREW

University of Utah

M. WINSTON EGAN

University of Utah

BARBARA WOLF

Indiana University

ALLYN AND BACON

Boston / London / Toronto / Sydney / Tokyo / Singapore

Series Editor: Ray Short

Developmental Editor: Alicia Reilly
Production Administrator: Rowena Dores

Editorial Assistant: Christine Shaw
Cover Administrator: Linda K. Dickinson

Composition Buyer: Linda Cox

Manufacturing Buyer: Louise Richardson Editorial-Production Service: Karen Mason

Text Designer: Karen Mason

Photo Research: Photosynthesis/Gloucester, Mass.

Cover Designer: Paradise Design



Copyright © 1993, 1990, 1987, 1984 by Allyn and Bacon A Division of Simon & Schuster, Inc. 160 Gould Street Needham Heights, MA 02194

All rights reserved. No part of the material protected by this copyright notice may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the copyright owner.

Library of Congress Cataloging-in-Publication Data

Human exceptionality: society, school, and family / Michael L.

Hardman . . . [et al.]. —4th ed.

p. cm.

Includes bibliographical references and index.

ISBN 0-205-13801-2

Handicapped.
 Exceptional children.
 Handicapped—
 Hardman, Michael L.

HV 1568.H83 1993

362-dc20

92-26306 CIP

Printed in the United States of America

10 9 8 7 6 5 4 3 96 95 94

Photo Credits for Chapter Openers and Window Openers

Chapter One: Opener, Stephen Brady/PhotoEdit;

p. 2, Harvey Lloyd/The Stock Market

Chapter Two: Opener, Tony Freeman/PhotoEdit;

p. 39, David Young-Wolff/PhotoEdit

Chapter Three: Opener, Bob Daemmrich/Stock, Boston;

p. 60, David Young-Wolff/PhotoEdit

Chapter Four: Opener, Mario Ruiz/The Picture Group;

p. 94, Courtesy of Very Special Arts

Chapter Five: Opener, Kevin Horan/The Picture Group;

p. 131, Andy Levin/Photo Researchers, Inc.

Chapter Six: Opener, Spencer Grant/Monkmeyer Press;

p. 172, C. Higgins/Photo Researchers, Inc.

Chapter Seven: Mark Lunenberg/The Picture Group;

p. 208, L. Druskis/Photo Researchers, Inc.

Chapter Eight: Opener, Myrleen Ferguson/PhotoEdit;

p. 230, Freda Leinwand/Monkmeyer Press

Chapter Nine: Opener, Schwartzberg/The Stock Market;

p. 260, Barbara Feigles/Stock, Boston

Chapter Ten: Opener, Bob Daemmrich;

p. 278, Chester Higgins, Jr./Photo Researchers, Inc. Chapter Eleven: Opener, Rogers/Monkmeyer Press;

p. 312, Ida Weyman/Monkmeyer Press

Chapter Twelve: Opener, Barbara Laing/Black Star;

p. 340, Duncan/Courtesy of Dr. Richard Johns

Chapter Thirteen: Opener, Richard Howard/OffShoot Stock;

p. 376, John Telford

Chapter Fourteen: Opener, Ellis Herwig/Stock, Boston;

p. 412, Laura Dwight/Peter Arnold, Inc.

This book is dedicated to people with differences everywhere, who have risen to the challenge of living in a society that is sometimes nurturing, but all too often ambivalent.

THE NEW YORK TIMES and Allyn and Bacon are sponsoring A CONTEMPORARY VIEW: a program designed to enhance student access to current information of relevance in the classroom.

Through this program, the core subject matter provided in the text is supplemented by a collection of time-sensitive articles from one of the world's most distinguished newspapers, THE NEW YORK TIMES. These articles demonstrate the vital, ongoing connection between what is learned in the classroom and what is happening in the world around us.

To enjoy the wealth of information of THE NEW YORK TIMES daily, a reduced subscription rate is available in deliverable areas. For information, call toll-free: 1-800-631-1222.

Allyn and Bacon and THE NEW YORK TIMES are proud to cosponsor A CONTEMPORARY VIEW. We hope it will make the reading of both textbooks and newspapers a more dynamic, involving process.

Preface

There is a hope, I believe, in seeing the human adventure as a whole and in the shared trust that knowledge about mankind sought in reverence for life, can bring life.

Margaret Mead

As you begin your study of the fourth edition of *Human Exceptionality: Society, School, and Family,* we would like to provide some perspective on those features that continue from our third edition as well as on what is new and different. It is important to remember that this text is about *people*. Namely, it is about people with diverse needs, characteristics, and life-styles. It is about people who, for one reason or another, are called *exceptional*.

What does the word exceptional mean to you? For that matter, what do the words disordered, deviant, or handicapped mean to you? Who or what influenced your knowledge and attitudes about these terms and the people behind them? It is likely that you were influenced most by life experiences and not by formal training. You may have a family member, friend, or acquaintance who is exceptional in some way. Or perhaps you are a person with exceptional characteristics. Then again, you may be approaching the study of human exceptionality with little or no background on the topic. You will find that such study is the study of being human. Perhaps you will come to understand yourself better in the process.

ORGANIZATIONAL FEATURES

In addition to providing you with current and informative content, we are committed to making your first experience in the area of exceptionality interesting, enjoyable, and productive. To accomplish this, we have incorporated some features in the fourth edition of the text that should greatly enhance your desire to learn more and become acquainted with people who are exceptional.

To Begin With . . .

To Begin With . . . boxes, found at the beginnings of chapters, are designed to introduce and stimulate interest on topics. Each offers a variety of fascinating and current quotes, facts, and figures related to the subject covered in the chapter.

Windows

Windows present a series of personal statements that focus directly on individuals with differences. The purpose of the Windows is to share with you some personal insights into

XXII PREFACE

the lives of these people. These insights may come from teachers, family members, friends, peers, and professionals, as well as from individuals who are exceptional. Most chapters in this fourth edition open with at least one Window; others are usually included throughout the chapter. Note that these Windows are in no way representative of the range of characteristics associated with a given area of exceptionality. At best, they provide you with a frame of reference for your reading; they let you know that we are talking about real people who deal with life in many of the same ways. We believe that you will find the Windows to be one of the most enriching aspects of your introduction to exceptionality.

In the News

In the News boxes are scattered throughout the book, highlighting current events relating to various exceptionalities. For example, Chapter One (page 16) features an article on breaking down the barriers of discrimination through passage of the Americans with Disabilities Act of 1990. The In the News feature is designed to keep you up to date on issues and people who are making news.

Reflect on This

Every chapter includes at least one section entitled Reflect on This. Each highlights a piece of interesting and relevant information that will add to your learning and enjoyment of the chapter content. These Reflect sections give you a temporary diversion from the chapter narrative, while providing some engaging facts about a variety of subjects, including misconceptions regarding people with Down syndrome, information on preventing a hearing or visual impairment, or what to tell a friend who is contemplating suicide.

Today's Technology

New to the fourth edition is a feature on the expanding use of technology for people who are exceptional. Today's Technology highlights some of the innovations in computers, biomedical engineering, and public communication systems and the impact they have on individuals with differences. These Technology boxes focus on such topics as learning language skills through devices that synthesize speech, electronic readers for people with visual impairments, and word-processing programs with specialized features that assist students with learning disabilities in developing writing skills.

Interacting in Natural Settings

Also new to the fourth edition is Interacting in Natural Settings. This feature is intended to provide the reader with brief tips on ways to communicate, teach, or socialize with people who are exceptional across a variety of settings (home, school, and community) and age spans (early childhood through the high school years). Certainly, there are many possible ways to interact effectively with people who are exceptional. We hope that these tips provide some stimulus for further thinking on how to include these individuals as family members, school peers, friends, and neighbors.

Debate Forum

The text discussion in every chapter is followed by a Debate Forum. The purpose of this element is to broaden your view of the issues concerning people with differences. The De-

PREFACE XXIII

bate Forum in each chapter focuses on an issue about which there is some difference of opinion, such as federal involvement in education, children with AIDS in the public schools, educating students who are disabled with nondisabled peers, and the appropriateness of intervention strategies. For each issue discussed, opposing positions are presented, *Point* and *Counterpoint*. Remember, the purpose of the Debate Forum is not to establish right or wrong answers but to help you better understand the diversity of issues concerning individuals who are exceptional.

IMPROVING YOUR STUDY SKILLS

Each chapter in this text is organized in a systematic fashion. We encourage you to consider these brief suggestions in order to increase your learning effectiveness.

Preview the Chapter

In the margins of each chapter, you will find a series of Focus questions to guide your reading. Survey the Focus questions before reading the chapter; each question highlights important information to be learned. After surveying the Focus questions, examine key chapter headings to further familiarize yourself with chapter organization. Also scan the text for key terms, which are set in boldfaced type. Consult the Glossary at the end of the book for definitions of these terms.

Ask Questions

Using the Focus questions as a guide, ask yourself what you want to learn from the chapter material. After previewing the chapter, write down any additional questions you may have and use them as a supplement to guide your reading. Then organize your thoughts, and schedule time to actively read the chapter.

Read

Again, using the Focus questions as your guide, read the chapter.

Recite

After you have completed reading the chapter, turn back to the Focus questions and respond orally and in writing to each. Develop a written outline of the key points to remember.

Review

Each chapter in this text concludes with a section entitled Review. Each Focus question in the chapter is repeated in this section along with key points to remember from the material presented. Compare your memory of the material and your written outline to the key points addressed in the Review. If you forgot or misunderstood any of the important points, return to the Focus question in the chapter and reread the material. Review key terms cited within the chapter, as well; consult the Glossary as needed to become familiar with the meanings of these terms. Follow this process for each chapter in the book. In addition, consider developing your own short-answer essay tests to further enhance your understanding of the material in each chapter.

XXIV PREFACE

A Study Guide is also available to help you master the information included in this fourth edition of *Human Exceptionality*. Each chapter of the Study Guide is organized around effective methods for studying. Students are provided with information on what to preview, questions to ask, keys to effective reading, and how to recite, review, and reflect on the most important concepts in each chapter of the book. The guide includes exercises for mastering key terms, multiple-choice practice tests, fill-in-the-blank study sections, and activities that encourage further exploration into various topics of interest.

The study of human exceptionality is relatively young and unexplored. Those of you seeking careers in fields concerned with people who are exceptional will be part of the exploration. If, after reading this book, you are excited and encouraged to study further in this area, then we have met our primary goal. We would be unrealistic and unfair if we said this book will provide you with everything you ever wanted to know about people who are exceptional. What it does provide, however, is an overview on the lives of these people within their own communities, schools, and families.

LANGUAGE AWARENESS

As mentioned earlier, the study of human exceptionality is relatively new; thus, the parameters that define it are continually evolving. This is true of the language used to describe human exceptionality, as well.

Great care has been taken in this fourth edition of *Human Exceptionality* to discuss people with exceptionalities in a sensitive and positive manner. We have chosen to emphasize that these are indeed *people* first; the fact that they have exceptional characteristics is secondary. For example, rather than refer to *learning-disabled individuals*, we refer to *individuals with learning disabilities*. Likewise, we discuss *students at risk* rather than *at-risk students*. In short, the written style followed in this book is such that the person is always mentioned first; what makes him or her exceptional is mentioned second.

Care has also been taken to use appropriate terminology in describing people with exceptionalities. What is considered appropriate has evolved considerably over the years and will likely continue to do so. For instance, the term *handicapped*, once commonly used, is now considered to be derogatory in most contexts; terms such as *disabled* and *impaired* are preferred. (We address these issues in Chapter One in the discussion on labeling.) Similarly, terms such as *disturbances* (as in *emotional/behavioral disturbances*) have been replaced with less derogatory terms such as *disorders*. Although terms are necessary to describe categories of exceptional individuals, these descriptions need not be stigmatizing.

We encourage readers to review how language is used in this book and adopt these practices in their own communications. Consider that thought and language are interactive. The very words you choose to express your *ideas* about a subject also convey your *attitudes* toward it.

ACKNOWLEDGMENTS

We wish to thank our colleagues from around the country who provided in-depth and constructive feedback on various chapters within this fourth edition of *Human Exceptionality*. We extend our gratitude to the following national reviewers: Robert A. Berner, Slippery Rock University; Phillip Chinn, California State University at Los Angeles; Nancy Dalrymple, Indiana Resource Center for Autism at Indiana University; William E. Davis, University of Maine; Thomas P. DiPaola, Providence College; Deborah Gartland, Towson State University; Joan Herrick, Ferris State University; Bennett Leventhal, University of

PREFACE XXV

Chicago; Isaura Barrera Metz, University of New Mexico; Donald Moorose, Fairmont State College; Susan Moreno, Editor, *The Maap*, Crown Point, Indiana; John J. O'Kane, State University of New York at Brockport; Christopher Pellikan, University of Illinois at Chicago; Cathy Pratt, Indiana University at Bloomington; Ramon Rocha, State University of New York at Geneseo; Raymond Rodriguez, Colorado State University; Stuart E. Schwarz, University of Florida; Kathlene S. Shank, Eastern Illinois University; and Jerry Wellik, St. Cloud State University.

We extend a special thank-you to those adopters from the third edition who took the time to complete a survey that was most helpful in shaping this new edition. Thanks to: Diana Caldwell, Alaska Pacific University; William Callahan, University of Nebraska at Omaha; Bill Casile, Duquesne University; Raymond J. Dalfonso, Kutztown University; Ken Gerlach, Pacific Lutheran University; Elaine Haglund, California State University at Long Beach; Peggy E. Hockersmith, Shippensburg University; Carolann Houser, Delta College; Betty Holdt, Western Oregon State College; Helmi Odems, Pacific Lutheran University; Joan C. Post-Gorden, University of Southern Colorado; and Julie Roncadori, University of Georgia.

We also extend our gratitude to the faculty and students at the University of Utah and Indiana University, who taught us a great deal about writing textbooks. Many of the changes incorporated into this fourth edition are a direct result of critiques from students in our classes.

We are indebted to our Series Editor Ray Short and his editorial assistant Christine Shaw. Ray has now been with us through the highs and lows of the last two editions. (Fortunately, there have been many more ups than downs.) He has spent numerous hours helping us to shape and then reshape the manuscript for this fourth edition. Ray's knowledge of the needs and interests of professors and students in the fields of education and psychology helped us cast this edition into a comprehensive text for the 1990s.

We have also not only appreciated but genuinely enjoyed our work with Developmental Editor Alicia Reilly, whose constant vigilance over quality issues has resulted in a product of which we are all very proud. We again thank Rowena Dores, who was our Production Administrator for the third and fourth editions.

The production team continues to amaze us as they consistently improve the readability, utility, and appearance of this book from edition to edition. To Susan Freese, our thanks for the careful and in-depth editing of the original manuscript and for the meticulous tracking of permissions. We have appreciated the opportunity of working with Karen Mason, who showed considerable patience as we all sought perfection in the final galleys and page proofs.

To Stephanie Gordon, Carolyn Osterman, Lisa Roosendaal, and Ruth Summers, we express our appreciation for the painstaking keyboarding, copying, and mailing of the manuscript. Thank-you for caring so much about the caliber of the finished product.

To those professors who have chosen this book for adoption and to those students who will use it as their first information source on people with differences, we hope our fourth edition of *Human Exceptionality* meets your expectations.

Finally, to our families, thanks for being there as we strived to do our best in preparing yet another edition of this book.

Michael L. Hardman Clifford J. Drew M. Winston Egan Barbara Wolf

Brief Contents

A Multidisciplinary View of Exceptionality 1 Chapter One Multicultural and Diversity Issues *3*7 Chapter Two 59 Education through the Life Span Chapter Three Mental Retardation Chapter Four Behavior Disorders 131 Chapter Five Learning Disabilities 171 Chapter Six **Cross-Categorical Perspectives** Chapter Seven 207 Communication Disorders Chapter Eight 259 Autism Chapter Nine Hearing Impairments *277* Chapter Ten Visual Impairments 311 Chapter Eleven Physical and Health Disorders 339 Chapter Twelve Children and Youth Who Are Chapter Thirteen Gifted, Creative, and Talented 375 Impact of Exceptionality on the Family 411 Chapter Fourteen 1992 Definition of Mental Retardation 439 Appendix A

Americans with Disabilities Act of 1990: PL 101-336

441

Appendix B

Contents

Preface	xxi
Chapter	One A Multidisciplinary View of Exceptionality 1
	Introduction 2
	Labeling People with Differences 2 Formal versus Informal 4 Approaches to Labeling 5
	Effects of Labeling 6
	Medical, Social, and Educational Services for People with Disabilities 8 Medicine 8
	Psychology and Sociology 11
	The Movement from Social Isolation to Social Inclusion 13
	Social Isolation 13
	Humanitarian Reforms 14 Legal Reforms 14
	Social Inclusion 15
	The Americans with Disabilities Act of 1990 16
	Education 19
	Students Who Are At Risk but Not Disabled 30
	Debate Forum: Government Intrusion in the Education of Students with Disabilities 33 Review 34
Chapter T	WO Multicultural and Diversity Issues 37
	Introduction 38
	Purposes and Approaches to Education 39 Comparing Purposes and Approaches 40
	Prevalence 42
	Multicultural and Diversity Linkages to Special Education 43 Nondiscriminatory and Multidisciplinary Assessment 44
	Assessment Error 45
	Language Differences 45
	Professional Training 46
	Parental Involvement in the Educational Process 46
	Education in the Least Restrictive Environment 50

X CONTENTS

Chapter Three

Chapter Four

	Individualized Education Programs 51 Other Multicultural Considerations 52 Poverty 52 Migrancy 53 Other Contributing Factors 54 Interventions 55 Debate Forum: English-Only or Bilingual Education? 56 Review 56					
	Education through the Life Span 59					
	Introduction 60 The Early Childhood Years 60 Early Intervention Services for Infants and Toddlers 62 Early Childhood Services for Preschool-Age Children 69 The School-Age Years 70					
	Educational Partnerships: Sharing the Responsibility 71 Special Education Classrooms and Schools 78 Full Inclusion versus Pull-out Programs 78 An Instructional Decision-Making Model 80 The Transition from School to Adult Life 82 Defining Transition 84 The Role of the School 85					
Debate Forum: Full Inclusion or Pull-out of Students with Disabilities from Regular Education Classrooms? 89 Review 89						
	Mental Retardation 93					
	Introduction 95 Definitions and Classification 96 Definitions 96 Classification 98 Prevalence 101					
	Intellectual 102 Adaptive Behavior 105 Academic Achievement 105 Speech and Language Characteristics 105 Physical Characteristics 106					
	Causation 107 Sociocultural Influences 107 Infection and Intoxication 108 Chromosomal Abnormalities 109 Gestation Disorders 110 Unknown Prenatal Influences 111					

CONTENTS XI

Traumas or Physical Agents 112 Metabolism and Nutrition 112 Gross Postnatal Brain Disease 113 Prevention 113 **Educational Assessment** 115 **Educational Interventions** 116 Early Childhood Education 117 Education for Elementary School-Age Children Education and Employment Training for Adolescents 122 Educational Placement Considerations Other Intervention Strategies 123 Medicine 123 Social Services Debate Forum: Social Inclusion or Social Separation of Students with Mental Retardation? 127 Review 128 Behavior Disorders 131 133 Introduction Studying Behavior Disorders 133 Variables in Behavior Disorders 134 Terminology: Externalizing and Internalizing Disorders 134 **Definitions and Classifications** 135 Definitions 135 Classifications 137 Prevalence 143 Characteristics 145 Intelligence 145 Adaptive Behavior 146 Academic Achievement 147 Causation 147 Theoretical Perspectives 147 Assessment 150 Screening and Referral 150 Factors in Assessment 151 Techniques Used in Assessment 152 Interventions 153 Approaches to Treatment Early Childhood Interventions 160 Interventions for Elementary-Age Children 161 Interventions for Adolescents Overview of Effective Programs 166 Debate Forum: Drugs: Is There Adequate Support for Their Continued Use with Great Numbers of Children? Review 168

Chapter Five

XII CONTENTS

CA				C	iv
Ch	a.	Jι	CI		IX

Learning Disabilities 171

Introduction 172

Definitions and Classifications 173

Definitions 173

Learning Disabilities and ADD 176

Classification 178

Prevalence 178

Characteristics 180

Intelligence 181

Hyperactivity 181

Learning Characteristics 182

Cognition/Information Processing 185

Academic Achievement 185

Comments 189

Causation 190

Neurological Causation 190

Maturational Delay 191

Genetic Causation 191

Environmental Causation 191

Comments 191

Assessment 192

Preliminary Concepts 192

Screening 193

Interventions 194

Early Childhood Interventions 194 Interventions in Adolescence 201

Debate Forum: Is Medication an Appropriately Used Treatment for Children with Learning

Disabilities? 204

Review 205

Chapter Seven

Cross-Categorical Perspectives 207

Introduction 209

Categorical and Cross-Categorical Approaches 209

Mild Learning and Behavior Disabilities 210

Definition 210

Prevalence 214

Causation 215

Characteristics 215

Moderate Learning and Behavior Disabilities 218

Definition 218

Prevalence 220

Causation 220

Characteristics 220

CONTENTS XIII

Severe and Profound/Multiple Disabilities 221 Definition 222 224 Prevalence Causation 224 Characteristics 224 **Debate Forum:** Categorical versus Cross-Categorical Programs 225 Review 226 Communication Disorders 229 Introduction 230 The Structure of Language 231 Language Development 232 Speech Disorders Fluency Disorders 234 Delayed Speech 237 Articulation Disorders 242 Voice Disorders Prevalence 249 Language Disorders 249 Definition 250 Classification 250 Causation 252 Interventions 254 **Debate Forum**: To Treat or Not to Treat? 256 Review 256 Autism 259 Introduction 260 Definition 261 261 Prevalence Characteristics 263 Impaired or Delayed Language 264 Self-Stimulation 265 Resistance to Change in Routine 265 Intelligence 265 Learning Characteristics 266 Causation 267 Interventions 268 **Educational Interventions** 268 Psychological and Medical Interventions 269 Behavioral Management Impact on the Family 273 **Debate Forum**: Self-Stimulation as a Reinforcer? 274 Review 275

Chapter Eight

hapter Nine

XÍV CONTENTS

Chapter Ten

Hearing Impairments 277

Introduction 278

The Hearing Process 278

The External Ear 279

The Middle Ear 279

The Inner Ear 280

Definitions and Classification 280

Definitions 280

Classification 283

Prevalence 283

Causation 285

Congenital Factors 285

Acquired Factors 286

Characteristics 287

Intelligence 287

Speech and Language Skills 288

Educational Achievement 289

Social Development 290

Assessment and Interventions 290

Medical Interventions 290

Social Interventions 295

Educational Interventions 298

Debate Forum: Living in a Deaf Community 308

Review 308

Chapter Eleven

Visual Impairments 311

Introduction 312

The Visual Process 312

Definitions and Classification 313

Definitions 313

Classification 316

Prevalence 318

Causation 319

Genetically Determined Factors 319

Acquired Disorders 319

Characteristics 320

Intelligence 320

Speech and Language Skills 320

Educational Achievement 321

Social Development 321

Orientation and Mobility 322

Perceptual-Motor Development 322

Assessment and Interventions 323

Medical Interventions 323