

Contents

Contributing Authors *vi*
Preface *vii*
Foreword *x*



CHAPTER 1
**Introduction to Health and
Wellness** 1

UNIT 1: The Biological Basis of Human Movement 13



CHAPTER 2
**Human Anatomy: The Pieces
of the Body Puzzle** 15



CHAPTER 6
The Heart and Lungs at Work
107



CHAPTER 3
**Muscle Structure and
Function** 59



CHAPTER 7
**How Do I Move? The Science
of Biomechanics** 127



CHAPTER 4
Muscles at Work 75



CHAPTER 8
**Out of Harm's Way: Sports
Injuries** 167



CHAPTER 5
Energy for Muscular Activity
93

UNIT 2: Human Performance 191



CHAPTER 9
Physical Fitness 193



CHAPTER 11
The Nutritional Connection
255



CHAPTER 10
**Evaluation in Physical and
Health Education** 227



CHAPTER 12
**Weight Management: Finding
a Healthy Balance** 289



CHAPTER 13
Substance Use and Abuse
311



CHAPTER 14
The Mental Side of Human Performance 329

UNIT 3:
Motor Development 353



CHAPTER 15
Growth and Development
355



CHAPTER 17
Information Processing in Motor Learning 407



CHAPTER 16
Movement Intelligence: A Vast Store of Skills 383



CHAPTER 18
Motor Learning in Practice: Skill Acquisition 425

UNIT 4:
Physical Activity and Sport in Society 451



CHAPTER 19
Physical Activity and Sport Issues 453



CHAPTER 22
Technology, Sport, and the Body 533



CHAPTER 20
Society, Culture, and Sport
477



CHAPTER 23
Career Opportunities 551



CHAPTER 21
Philosophy of Sport 515

References and Suggested Readings 568
Key Words Index 573
Credits 578