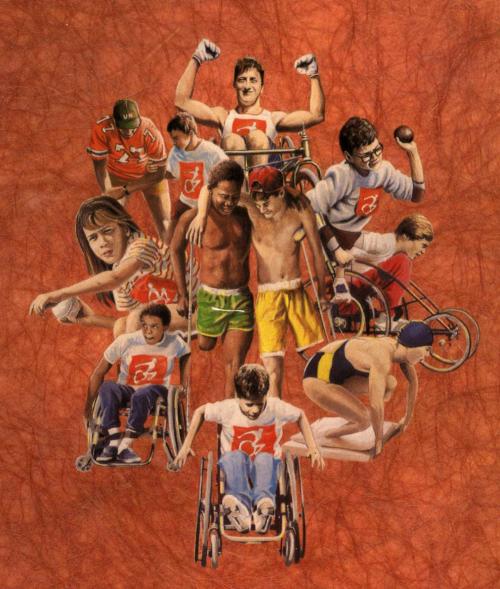
ADAPTED PHYSICAL ACTIVITY, RECREATION AND SPORT

Crossdisciplinary and Lifespan

FOURTH EDITION



Claudine Sherrill

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Texas Woman's University



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Foreword: Reflections on the New Title

I he title change for this fourth edition reflects changes of the last two decades, particularly the emergence and influence of an international movement. The term adapted physical education in the old title is interpreted by most sectors as referring to school-based instruction and the ages from birth to 21 specified by federal legislation. Today's professional works with people of all ages in many settings. Physical educators, kinesiologists, recreators, occupational and physical therapists, music and dance therapists, and others adapt physical activity for all age groups.

Adapted physical activity was first proposed as the appropriate term for our body of knowledge in 1973, when the International Federation of Adapted Physical Activity (IFAPA) was founded in Montreal, Canada. The board of directors that created this new term included President Clermont Simard of Quebec, Vice President Robert L. Eason of the University of New Orleans, Julian Stein and John A. Nesbitt of the United States, Gudrun Doll-Tepper of Germany, Jean-Claude DePotter of Belgium, Eileen McLeish of England, David Jones of Australia, and Jean Claude Pageot and Fernand Caron of Canada. IFAPA meets every 2 years in various countries throughout the world and has many regional affiliates.

In 1984, the first professional journal to disseminate and extend our body of knowledge was created by Human Kinetics of Champaign, IL. This journal is called the *Adapted Physical Activity Quarterly (APAQ)*.

In 1986, the Adapted Physical Activity Council (APAC) of the American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD) was created by the merger of two structures, one of which dated back to 1905 and the early influence of Swedish medical gymnastics. Today, we support our profession when we join and attend meetings of APAC, which is housed within the Association for Research, Administration, Professional Councils and Societies (ARAPCS) of AAHPERD.

Clearly, adapted physical activity is the name of the present and the future. It is broad and inclusive and emphasizes the theory and practice of adaptation. It recognizes that adaptations are needed for all persons with psychomotor problems, not just those labeled as disabled. Professionals in a number of fields and disciplines can make these adapta-

tions. Adapted physical activity is especially linked to recreation and sport (not necessarily adapted recreation or adapted sport).

Recreation is retained in the title of this text for many reasons. The word recreation emphasizes a state of mind and reminds us that the purpose of adapting physical activity is to develop attitudes, appreciations, and habits that will contribute to an active, healthy lifestyle and rich, satisfying leisure. My first 15 years of university teaching experience were focused dually on therapeutic recreation and physical education. The partnership of these two professions is crucial to lifespan programming.

Sport has been added to the title in recognition of the right of all persons to engage in competitive sport. Whereas sport can be educational, recreational, or competitive, the term increasingly refers to competition. I have participated in all of the quadrennial international Paralympics summer events since 1984 (New York, Korea, and Spain) and in all of the Special Olympics summer events since 1979 (New York, Louisiana, Indiana, Minnesota). Cerebral palsy and les autres sports, in particular, have captured my imagination because they address the broadest spectrum of individual differences. Athletes and coaches in the disabled sport movement have contributed significantly to adaptation theory and practice. Sport is woven throughout the book and has especially strong coverage in the chapters on disability in Part 3.

Crossdisciplinary is a more accurate descriptor of the book's approach than multidisciplinary. Our body of knowledge does come from many fields, but the goal is to integrate content across disciplines into a broad-based theory that can guide professionals in the many fields that adapt physical activity. The term multidisciplinary, however, appears in federal law. This was the rationale for use of multidisciplinary in the title of earlier editions.

The word *lifespan* in the title reflects the revived interest in many fields of serving persons of all ages. This text includes a new chapter on infants, toddlers, and early childhood, and much content in other chapters is directed toward this area. Content has been expanded throughout to encompass problems of adults, but the chapters on fitness and other health impaired conditions have been especially strengthened.

PrefacE

T his fourth edition has been revised extensively to meet the diverse needs of undergraduate and graduate students, as well as beginning and experienced professionals. The intent was to develop a comprehensive, multipurpose resource that can serve as a textbook for several of the courses offered by colleges and universities and as a reference book throughout the professional's career.

This book can be used for basic adapted physical activity, recreation, and sport courses or for specialized courses on (a) assessment, (b) programming, (c) administration, (d) individual differences and disabilities, and (e) infants, toddlers, and early childhood. It is also perhaps the strongest resource available on the sport and disabled athlete movement and sport classification. The broad coverage affords professors the freedom to select content that meets individual needs and interests.

Adapted physical activity attitudes, knowledge, and skills must be *infused* into all courses. After university students are introduced to the content of this text in a basic course, their competencies should be further enhanced by a teacher training *infusion model* in which individual differences are addressed in every course. A goal is for this textbook to be used as a resource in every class. To achieve this, adapted physical activity proponents must share this text with regular education colleagues and emphasize infusion of content into daily lesson plans.

Public Law 101–476, the Individuals with Disabilities Education Act of 1990, brought major changes, all of which are incorporated into this text. Chief among these is the mandate that we use person-first terminology, thereby according persons with disabilities dignity and respect.

In the 1990s, regular and adapted physical educators will increasingly work as partners in the delivery of services to meet individual needs. More and more persons with disabilities will be in regular settings, and mainstream professionals will need considerable knowledge and skills for coping with wide ranges of behaviors and abilities. The content of this text is based on the belief that both regular and adapted physical activity personnel need competencies in seven areas:

- P Planning
- A Assessment
- P Prescription/Placement

- T Teaching/Counseling/Coaching
- E Evaluation
- C Coordination of Resources
- A Advocacy

I call the knowledge comprising these areas the PAP-TE-CA model. It would be helpful if this acronym spelled something meaningful, but we shall have to settle for its spirited rhythm. It is a mnemonic device that effectively assures memory of the services that guide competency development.

Organization of Fourth Edition

This fourth edition begins with a list of competencies related to job functions. This list can guide self-evaluation and the development of a personal learning plan. Organization of the fourth edition into three parts is similar to that of the third edition. Titles of these sections have been changed, however.

Part 1: Foundations

Part 1 includes nine chapters, four of which are new. All have been rewritten. "Foundations" presents information everyone should know prior to involvement with individual differences. For graduate students and experienced teachers, there is much new material also. A theoretical framework for our profession is proposed, and problems, issues, and trends are highlighted.

Chapter 1 establishes the rationale for adapted physical activity; defines it; specifies core areas of knowledge and basic job functions; identifies underlying theories, principles, and models; and states 10 characteristics that distinguish adapted from regular physical activity service delivery. It also includes a brief history and proposes a philosophy.

Chapter 2 emphasizes celebration of individual differences and promotion of positive attitudes. Eight case studies are presented to focus learning on human beings, not disabilities. Prejudice, stigmatization, and stereotyping are discussed, and four attitude theories are presented to guide classroom and community practices: (a) contact, (b) persuasive communication, (c) social cognitive, and (d) reasoned action.

Chapter 3 identifies settings for either practica experiences or employment. Special attention is given sport organizations for persons with disabilities since these are

featured as major resources throughout the book. The remainder of the chapter covers all the basics needed for success in a first practicum. For advanced students, adaptation and creativity theory are proposed, with special emphasis on ecological task analysis.

Chapter 4 focuses on advocacy and the worldwide human rights movement. Legislation that guides adapted physical activity service delivery is discussed, and the individualized education program (IEP) and the individualized family service plan (IFSP) are introduced.

Chapter 5 centers on writing goals and objectives, observation techniques to guide global assessment, and information relevant to age-appropriate programming in the cognitive, affective, and psychomotor domains.

Chapter 6 posits that self-concept and motivation are greater concerns in adapted than regular physical activity. The purpose of this chapter is to guide the development of a philosophy that supports humanistic service delivery practices. Assessment of self-concept and pedagogy for enhancing self-concept are thoroughly covered. Several psychosocial theories are explained.

Chapter 7 presents purposes and types of assessment, methods of data collection, assessment procedures, and illustrative instruments. Three theories are explained: (a) normal curve, (b) personal best, and (c) sport classification.

Chapter 8 contrasts least restrictive environment and regular education initiative placement approaches, discusses service delivery for regular education as well as special education students, and describes school district and individual planning. Transitional and inclusive models are described. All of the PAP-TE-CA services except assessment are discussed with respect to job functions.

Chapter 9 reviews the biomechanical, exercise science, and motor learning foundations of adaptation and covers behavior management. Development of teacher creativity is emphasized.

Part 2: Generic Service Delivery

Part 2 is designed for professors who wish to focus on goals, objectives, and pedagogy instead of disabilities. It provides in-depth pedagogy for achieving nine goals of adapted physical activity. The section includes eight chapters. One is new, and four have been totally rewritten.

Chapter 10 describes assessment and programming for nonambulatory locomotion, abnormal retention of reflexes, and delayed emergence of protective and equilibrium reactions. It presents the Milani-Comparetti assessment system and sensorimotor integration pedagogy. The chapter concludes with basic neurology and selected theories related to reflexes, reactions, and stereotypic patterns.

Chapter 11 covers assessment and teaching of basic locomotor and object control skills, including writing goals and objectives and developing task cards and lesson plans. Both qualitative and quantitative assessment is included.

Chapter 12 covers assessment and teaching of perceptual-motor abilities. A model is followed that includes at-

tention, sensation, cognition, memory, and perceptual-motor abilities. Ecological task analysis is emphasized.

Chapter 13 includes everything needed to assess and program for lifespan wellness and fitness. Emphasis is on persons with low fitness and adaptations needed. American College of Sports Medicine (ACSM) guidelines are highlighted.

Chapter 14 covers postures, appearance, and muscle imbalance. Content is especially important for persons working with physical disabilities and low fitness.

Chapter 15 presents content related to the goal of relaxation, reduction of hyperactivity, and control of stress.

Chapter 16 describes adapted dance and dance therapy. This content is particularly relevant to persons with low self-concept, poor mental health, and/or problems of social acceptance.

Chapter 17 focuses on water activities for beginners and/or slow learners. Emphasis is on perceptual-motor learning in the water. Two instructional models (Sherrill and Halliwick) are presented.

Part 3: Individual Differences, with Emphasis on Sport

Part 3 is designed for persons who want in-depth knowledge of disabilities and basic information on incidence, prevalence, etiology, illustrative behaviors, and programming concerns and strategies. Sport classification is presented as the assessment approach. There are 10 chapters, and all but Chapter 18 follow more-or-less the same outline. Chapter 18 covers content relative to extending PL 101–476 assessment and programming to infants, toddlers, and early childhood. Topics of Chapters 18 through 27 are

Chapter 18 Infants, Toddlers, and Young Children: The New Emphasis

Chapter 19 Other Health Impaired Conditions

Chapter 20 Learning Disabilities, Attention Deficits, and Hyperactivity

Chapter 21 Mental Retardation and Special Olympics

Chapter 22 Serious Emotional Disturbance and Autism

Chapter 23 Wheelchair Sports and Orthopedic Impairments

Chapter 24 Les Autres Conditions and Amputations

Chapter 25 Cerebral Palsy, Stroke, and Traumatic Brain Injury

Chapter 26 Deaf and Hard-of-Hearing Conditions

Chapter 27 Blindness and Visual Impairments

New Chapters in Fourth Edition

New chapters, offering content not in the third edition, are

Chapter 2 Celebrating Individual Differences and Promoting Positive Attitudes

- Chapter 3 Getting Started: Settings, Resources, Adaptation, and Creativity
- **Chapter 6** Humanism, Self-Concept, and Motivation: Philosophy and Pedagogy
- Chapter 7 Assessment: The Key to Individualizing and Adapting
- Chapter 10 Motor Learning, Sensorimotor Integration, and Reflexes
- Chapter 18 Infants, Toddlers, and Young Children: The New Emphasis

Emphasis on Sports for Individuals with Disabilities

Whereas some authors develop separate chapters and books on sports for athletes with disabilities, this text treats sports as an integral part of adapted physical activity. Over 150 pages of text on sport have been included in this fourth edition, as well as outstanding photographs of athletes with disabilities in competition.

Pedagogical Devices

This text offers numerous pedagogical devices designed to help students blend theory with practice. Among these are

- Chapter objectives to guide study
 Objectives at the beginning of each chapter may form
 the basis for written assignments or may be used as
 essay questions on an examination. Or an objective may
 be assigned to a student who prepares an oral report for
 class, makes a tape recording or videotape, or develops a
 slide presentation.
- Learning activities embedded in each chapter

 These activities are designed to ensure that practicum experiences supplement classroom theory. Use of these activities works especially well in contract teaching.
- Subject index that can be used as a dictionary for looking up spelling of words

 The subject index can also be used as a testing device. A card for every word in the index is made and color-coded (if desired) by chapter. Students randomly draw cards from the stack for a particular chapter and talk or write for 60 sec on the subject drawn. The subject index can also be used in studying for the final exam; students should be able to spell and discuss every word in the index.

- Name index for becoming familiar with authorities in adapted physical activity and related disciplines
 The name index can be used the same way as the subject index. Emphasis on learning names (i.e., primary sources) is probably more appropriate for graduate than undergraduate students.
- Numerous photographs and line drawings
 Approximately 230 photographs and 200 line drawings enrich the text. Test questions can be drawn from figure captions since these descriptions provide double emphasis of facts.
- American Psychological Association (APA) format
 Adherence to APA writing style provides a model for
 students who wish to acquire research and publication
 skills.
- Appendixes on prevalence and incidence statistics and medications
 The statistics in Appendix A are helpful in preparing term papers and in documenting the need for adapted physical activity service delivery. Appendix B on medications is valuable in understanding individual needs
- Appendix on assessment information
 Appendix C presents information useful in making placement decisions, programming, and writing IEPs. It summarizes text tables that can be used for class assignments.

and in working in a crossdisciplinary setting.

- Appendixes on sources of information
 Appendixes D, E, and F provide readers with over 100 addresses to write for additional information.
- Appendix on history of adapted physical activity, recreation, and sport
 Beginning in 1817 with the establishment of the first residential schools in the United States, the chronology of over 100 events presented in Appendix G includes the initiation of services, enactment of legislation, and formation of organizations.
- References to reinforce understanding of primary sources

The reference list at the end of each chapter comprises recommended reading for persons who wish more indepth coverage. Students should be encouraged to learn names of journals and to stay abreast of new issues as they are published.

ACKNOWLEDGEMENTS

To the many individuals and agencies who shared in this adventure, a heartfelt thank you. I am especially grateful to Julian Stein, who served as major reviewer and advisor for the first edition and who has been my mentor for many years; to Bill Hillman and the other members of the National Consortium on Physical Education and Recreation for Individuals With Disabilities (NCPERIWD) who have expressed faith in my ideas and leadership; to Janet Wessel of I Can and the ABC curriculum whose work forms the basis of the PAP-TE-CA service delivery model in this textbook; and to G. Lawrence Rarick, whose rare combination of research abilities and humanistic beliefs serves as a model for us all.

To Creators of Our Knowledge Base

I am indebted to the many persons who are creating the adapted physical activity knowledge base and to the editors of the journals that disseminate this knowledge. Work that appears in the Adapted Physical Activity Quarterly and Palaestra: The Forum of Sport, Physical Education, and Recreation for the Disabled significantly affects my thought, creativity, and commitment. My thanks to the editors of these journals for their service and scholarship: Geoffrey Broadhead, Kent State University; Greg Reid, McGill University; and David Beaver, Western Illinois University. Writers who particularly have stimulated my thinking are Terry Rizzo, Walter E. Davis, Allen Burton, Dale and Beverly Ulrich, Gail Dummer, Ted Wall, E. Jane Watkinson, Martin E. Block, and Patricia Krebs.

To My Students

Most important, I thank my students at the Texas Woman's University, who keep me involved in research and practicum experiences, and the parents who trust us with their children. Each edition brings new students as well as memories of past ones who have shared and grown with me and significantly affected the contents of this book. I wish I could mention all their names, but a few will have to do: Karen DePauw, Luke Kelly, Jim Rimmer, Sarah Rich, Boni Boswell, Wanda Rainbolt, Ellen Lubin Curtis-Pierce, Jo Ellen Cowden, Garth Tymeson, Tom Montelione, Jim Mastro, April Tripp, Ellen Kowalski, Carol Pope, Ron Davis, and Leslie Low.

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For her photography and assistance with the many aspects of production, I thank Rae Allen. I am indebted also to Annetta Simpson, my typist, and to many artists: Mary Jane Cardenas and C. David Mathis, first edition; Molly Pollasch, second edition; Dr. Diann Laing, third edition; and Lin Hampton and Lisa West, fourth edition. I am grateful also to the outstanding staff of Brown & Benchmark, whose editing, production, and marketing excellence make them the leaders in creating a knowledge base for adapted physical activity.

To My Resource Persons

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To My Role Models

Acknowledgments can be complete only if they extend backward in time to those persons who sparked the initial enthusiasm in teaching and writing: Dr. Harry A. Scott of Teachers College, Columbia University, who spoke of competency-based teaching in the early 1950s; Dr. Josephine Rathbone, also of Teachers College, who instilled in me a deep concern for the right of all persons to efficient and beautiful bodies; and Dean Anne Schley Duggan, Texas Woman's University, who taught me to hear the different drummer and to keep step to the music—however measured or far away.

-Claudine Sherrill

C омрете n с i е S

A competency is adequate and suitable philosophy, attitude, knowledge, or skill to perform a specific job function or task. Study of this textbook will result in the competencies necessary to (a) perform the job functions indigenous to direct service delivery, (b) conduct research to further the knowledge base of adapted physical activity, and (c) serve as a leader and professional educator in in-service and college and university settings.

Competencies Related to Advocacy (Action Aimed at Promoting, Maintaining, or Defending a Cause)

- 1.1 Philosophy that supports
 - 1.11 The right of all persons to (a) high-quality physical education instruction and (b) lifespan sport, fitness, and recreation
 - 1.12 Assessed individual differences (not characteristics of people with disabilities) as the basis for adapted physical activity
- 1.2 Attitude of accepting and appreciating individual differences
- 1.3 Knowledge of
 - 1.31 Individual differences associated with normal curve theory and with various disabilities: myth and reality
 - 1.32 State physical education requirements and indicators of high-quality instruction
 - 1.33 Laws that eliminate barriers and protect rights
 - 1.34 Lifespan sport, fitness, and recreation opportunities in a variety of settings
 - 1.35 Theories, models, and strategies relevant to acceptance and appreciation of individual differences

1.4 Skill in

- 1.41 Increasing comfort and communication among people with limited exposure to individual differences
- 1.42 Applying attitude and behavior management theories to promote acceptance and appreciation of individual differences
- 1.43 Using advocacy strategies in the 5 L model (Look at me, Leverage, Literature, Legislation, Litigation)
- 1.44 Working with the press and media

Competencies Related to Coordination of Resources

- 2.1 Philosophy that supports
 - 2.11 Resource utilization as a means of learning and personal growth as well as improving service delivery to others
 - 2.12 Multidisciplinary and crossdisciplinary cooperation
 - 2.13 Partnerships between persons with and without disabilities in promoting lifespan sport, fitness, and recreation
- 2.2 Attitude of self-confidence in human relationships
- 2.3 Knowledge of
 - 2.31 Many types of resources (e.g., organizations, athletes with disabilities, special educators, related services personnel, parents)
 - 2.32 Many types of settings for learning about and using resources
 - 2.33 Models and theories that impact on resource coordination
- 2.4 Skill in
 - 2.41 Locating, contacting, and establishing rapport with resources
 - 2.42 Bringing resources together (e.g., planning meetings or introducing people to each other)
 - 2.43 Serving as a chair or participant in meetings and projects
 - 2.44 Working with administrators and parents

Competencies Related to Planning

- 3.1 Philosophy that supports critical thinking about
 - 3.11 Nature of adapted physical activity (APA); its philosophy, goals, and characteristics; core areas of knowledge; job roles and functions; service delivery; eligibility requirements for APA services
 - 3.12 Nature of human beings, the values of physical activity, and the rights of individuals and families
 - 3.13 Desirable student, parent, teacher, and administrator behaviors
 - 3.14 APA theories, models, principles, and practices
 - 3.15 Law, the role of government, morality, and personal ethics

- 3.2 Attitude of responsibility for critical thinking as the basis for
 - 3.21 Planning APA learning experiences for self and others
 - 3.22 Decision making in all aspects of direct service delivery
 - 3.23 Evaluating effectiveness
- 3.3 Knowledge of planning for (a) individual students; (b) classrooms, schools, and school districts; (c) communities; and (d) organizations and agencies
- 3.4 Skill in
 - 3.41 Decision making regarding variables to be assessed, procedures to be followed, and resources to be used
 - 3.42 Prioritizing and establishing goals
 - 3.43 Writing behavioral objectives to achieve goals
 - 3.44 Matching activities to objectives
 - 3.45 Calculating instructional time for objectives and activities
 - 3.46 Writing instructional units and lesson plans
 - 3.47 Addressing transitional education concerns and monitoring systems that maximize active lifestyles
 - 3.48 Creating behavior management plans

Competencies Related to Assessment

- 4.1 Philosophy that supports assessment as the key to individualizing and adapting
- 4.2 Attitude of commitment to assessing both individuals and environments
- 4.3 Knowledge of
 - 4.31 Instruments and protocols for assessing performance in nine goal areas
 - 4.32 Scientific and psychosocial foundations that relate to assessment (e.g., biomechanics, exercise physiology, motor learning, human development, sport sociology)
- 4.4 Skill in
 - 4.41 Using various types of assessment
 - 4.42 Interpreting assessment data
 - 4.43 Decision making based on data collection and interpretation
 - 4.44 Making referrals for further assessment

Competencies Related to Prescription

- 5.1 Philosophy that supports
 - 5.11 Individualized education programs (IEPs) as vehicles for curricular prescription for people with and without disabilities
 - 5.12 Exercise prescriptions as guides for fitness training
 - 5.13 Lesson plans as means of achieving prescribed objectives

- 5.2 Attitude of accountability
- 5.3 Knowledge of
 - 5.31 Parts of an IEP and of procedures in the IEP process
 - 5.32 Parts of an exercise prescription
 - 5.33 Parts of a lesson plan and of environmental variables to be manipulated
 - 5.34 Exercise indications and contraindications for specific conditions
 - 5.35 Models that guide school district decision making
 - 5.36 Support services and placement options
- 5.4 Skill in
 - 5.41 Making placement decisions
 - 5.42 Writing IEPs, exercise prescriptions, and lesson plans

Competencies Related to Teaching, Counseling, and Coaching

- 6.1 Philosophy that supports
 - 6.11 Adaptation, creativity, and individualization as theories that guide instruction
 - 6.12 Counseling as an integral part of teaching and sport psychology as an integral part of coaching
 - 6.13 Self-concept and self-actualization as central constructs
 - 6.14 Humanistic teaching practices
 - 6.15 Inclusion, normalization, and least restrictive environment (LRE) strategies
- 6.2 Attitude of celebrating individual differences and lifespan ability to learn and change
- 6.3 Knowledge of
 - 6.31 Adaptation, creativity, and individualization theories, models, processes, principles, and pedagogy
 - 6.32 Scientific and psychosocial foundations of adaptation (e.g., biomechanics, exercise physiology, motor learning and control, human development, psychology, sociology, behavior management)
 - 6.33 Assessment, curriculum, instruction, and evaluation practices that contribute to good teaching
 - 6.34 Counseling theory, weaving together sport, psychology, rehabilitation counseling, and movement therapy
 - 6.35 Pedagogy related to sensorimotor integration, reflexes, reactions, perceptual-motor learning, and play and game behaviors
 - 6.36 Pedagogy related to motor performance, dance, aquatics, sports, and games
 - 6.37 Pedagogy related to fitness, healthy lifestyle, postures, appearance, muscle imbalance, and relaxation

- 6.38 Pedagogy related to self-concept, social acceptance, inclusion, sport socialization, lifespan active leisure, and motor creativity
- 6.39 Individual differences in growth, development, and function that impact on teaching, counseling, and coaching

6.4 Skill in

- 6.41 Adapting instruction for individual differences (age, performance) and for achievement of specific goals
- 6.42 Using ecological and traditional task and activity analysis
- 6.43 Motivating students and athletes to personal bests and managing individual and group behaviors
- 6.44 Socializing persons into active, healthy lifestyles and sport
- 6.45 Applying knowledge in all aspects of teaching, counseling, and coaching

Competencies Related to Program Evaluation

- 7.1 Philosophy that supports continuous evaluation as an integral part of service delivery
- 7.2 Attitude of
 - 7.21 Striving for personal best while accepting that the best can always be improved
 - 7.22 Seeking ways to improve and being open to ideas for change
- 7.3 Knowledge of
 - 7.31 Instruments and protocols for program evaluation
 - 7.32 Evaluation theories, models, principles, and strategies
- 7.4 Skill in
 - 7.41 Using evaluation instruments and protocol and, when necessary, developing new ones
 - 7.42 Applying evaluation theories, models, principles, and strategies

Competencies Related to Research

8.1 Philosophy that supports research as the method of choice for improving service delivery and for creating the knowledge base of a profession and discipline

- 8.2 Attitude of responsibility for
 - 8.21 Reading research to stay abreast of new knowledge
 - 8.22 Conducting research to contribute to the knowledge base
- 8.3 Knowledge of
 - 8.31 Journals and books that publish research
 - 8.32 Meetings where research is presented
 - 8.33 Research methods and strategies, including statistics
 - 8.34 Computer- and hand-search techniques for locating research
 - 8.35 Topics on which research in needed
- 8.4 Skill in
 - 8.41 Locating, reading, understanding, and applying research
 - 8.42 Reviewing research related to selected topics
 - 8.43 Conducting and reporting research

Competencies Related to Conducting In-service or College/University Professional Education Courses

- 9.1 Philosophy that supports adapted physical activity training for professionals and parents
- 9.2 Attitude of helpfulness in assisting adults to achieve personal goals in relation to adapted physical activity competencies
- 9.3 Knowledge of
 - 9.31 Content in adapted physical activity textbooks and journals
 - 9.32 Roles, service delivery areas, specific job functions, and competencies
 - 9.33 Best practices and models of direct service delivery
 - 9.34 Pedagogy for adult education
- 9.4 Skill in
 - 9.41 Motivating adults to accept personal responsibility for learning
 - 9.42 Helping adults acquire favorable attitudes about individual differences
 - 9.43 Individualizing content and learning experiences for adults

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