Physical Therapy

Physical therapy is the science of human movement applied to rehabilitation, injury, fitness, injury prevention and overall health. Practicing in a variety of settings, physical therapists diagnose and treat movement dysfunction in patients with skill, competence and compassion. The Program in Physical Therapy is committed to providing students with excellent scientific and clinical education in an environment that strives to continually lead the industry in practice, research, innovation and advocacy of movement health.

The Program in Physical Therapy at the School of Medicine offers three formal curricula that collectively foster opportunities for lifelong learning and comprehensive career development.

The Human Movement System Approach

The Program in Physical Therapy has pioneered a unique, movement-based approach to physical therapy. The human movement system is at the core of our approach to physical therapy education, research and patient care.

At the core of our approach to physical therapy is the human movement system, which consists of physiological organ systems that interact to produce and support movement of the body and its parts. Movement science is the study of the movement system, and we believe physical therapists are the world's movement system experts.

Our program has pioneered the development of movement-focused physical therapy education, research and treatment (https://outlook.wustl.edu/movement-redefined). The human movement system continues to be our foundation for treating patients, conducting research, and training the next generation of leaders in physical therapy. Our vision is aligned with the vision of the American Physical Therapy Association (APTA) (http://www.apta.org), which is to “transform society by optimizing movement to improve the human experience.”

Additional Information

Further information, including complete admissions instructions and program descriptions, may be obtained by direct correspondence with the Program in Physical Therapy:

Program in Physical Therapy
Washington University School of Medicine
4444 Forest Park Avenue, CB 8502
St. Louis, MO 63108-2212
Fax: 314-286-1410

Contact: Gammon Earhart, PT, PhD
Phone: 314-286-1400
Email: ptdmissions@wustl.edu
Website: https://pt.wustl.edu

Degrees & Requirements

Professional Doctor of Physical Therapy

The professional curriculum is an intensive three-year experience leading to the Doctor of Physical Therapy degree. The principle focus of this professional training is to develop scientific and clinical expertise in the diagnosis and treatment of movement-related conditions. By integrating biomedical and physical sciences and clinical education with behavioral and social sciences, this curriculum provides students with the scientific expertise, critical thinking skills and interpersonal communication necessary for effective clinical practice, comprehensive treatment design, patient advocacy, patient education and health promotion. Applicants for admission must have 1) completed a bachelor’s degree at an accredited institution, and 2) prerequisite courses in biology, chemistry, physics, anatomy, physiology, psychology and statistics, and 3) a minimum science, math/science, and core prerequisites GPA of 3.0, and 4) completed the Graduate Record Examination. Visit our website for more information regarding eligibility and prerequisites (https://pt.wustl.edu/education/doctor-of-physical-therapy/eligibility-prerequisites).

Doctor of Philosophy in Movement Science

The focus of the interdisciplinary doctoral program in movement science is to prepare future researchers and faculty members who can enhance the profession of physical therapy. Admission to this curriculum requires acceptable scores on the Graduate Record Examination, excellence in previous academic work, and demonstrated beginning abilities in posing questions of importance to the study of movement.

The faculty members of the Program in Physical Therapy are committed to being leaders in discovering and transmitting new knowledge related to movement dysfunction, preparing clinicians to assume multiple roles in a complex health care environment, and fulfilling the service mission to society through active participation in humanistic, scientifically based patient care. Students in all curricula are expected to participate actively in an environment that values integrity, initiative, creativity and the strong belief that physical therapy intervention promotes health. In these ways, all individuals associated with the Program in Physical Therapy may achieve their highest professional and personal potential.
Visit our website or more information regarding admissions (https://pt.wustl.edu/education/phd-in-movement-science/application-admissions).

Research

The mission of the Research Division is to understand how the movement system (https://pt.wustl.edu/about-us) is affected by disease, injury, lifestyle, development and aging, and to understand how movement can be used to promote health by enhancing physical function, activity and participation across the lifespan.

Our interdisciplinary scientific endeavors include mechanistic and translational investigations at all levels of organization from the cell to society. Our research (https://pt.wustl.edu/research/our-research-areas) is supported by millions of dollars in federal, private foundation, and university funding. We pursue knowledge in a collaborative work environment within the Movement Science Research Center (https://pt.wustl.edu/research/movement-science-research-center).

Our doctoral and postdoctoral Research Training Programs (https://pt.wustl.edu/research/research-training-programs) prepare students for careers at the forefront of physical therapy and movement science research.

Our Research Areas

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<tr>
<th>Research Area</th>
<th>Faculty Investigators</th>
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<tr>
<td>Foot &amp; Ankle Injury &amp; Recovery</td>
<td>Mary K. Hastings, PT, DPT, ATC</td>
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<tr>
<td>Hardware &amp; Software Design for Rehabilitation Research</td>
<td>Joseph W. Klaesner, PhD</td>
</tr>
<tr>
<td>Integrative Muscle Physiology</td>
<td>Gretchen A. Meyer, PhD</td>
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<tr>
<td>Metabolism &amp; Organ Function in Metabolic Disease</td>
<td>W. Todd Cade, PT, PhD</td>
</tr>
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<td>Movement &amp; Musculoskeletal Problems in Diabetes</td>
<td>Michael J. Mueller, PT, PhD, FAPTA</td>
</tr>
<tr>
<td>Movement &amp; Neurodegenerative Disease</td>
<td>Gammon M. Earhart, PT, PhD</td>
</tr>
<tr>
<td>Movement &amp; Neurodegenerative Disease</td>
<td>Marie E. McNeely, PhD</td>
</tr>
<tr>
<td>Movement &amp; Neurodegenerative Disease</td>
<td>Ryan P. Duncan, PT, DPT</td>
</tr>
<tr>
<td>Musculoskeletal &amp; Metabolic Impairments with Aging &amp; Chronic Diseases</td>
<td>David R. Sinacore, PT, PhD, FAPTA</td>
</tr>
<tr>
<td>Nutrition &amp; Exercise</td>
<td>Diana C. Parra Perez, MPT, PhD</td>
</tr>
<tr>
<td>Physical Activity &amp; Fitness</td>
<td>B. Ruth Clark, PT, PhD</td>
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<tr>
<td>Physical Activity &amp; Fitness</td>
<td>Susan B. Racette, PhD</td>
</tr>
<tr>
<td>Prevention, Rehabilitation &amp; Maintenance in Musculoskeletal Conditions</td>
<td>Linda Van Dillen, PT, PhD, FAPTA</td>
</tr>
<tr>
<td>Rehabilitation Research for Orthopaedic Conditions</td>
<td>Marcie Harris-Hayes, PT, DPT, MSCI</td>
</tr>
<tr>
<td>Stroke Recovery &amp; Rehabilitation Accelerometry</td>
<td>Catherine Lang, PT, PhD</td>
</tr>
<tr>
<td>Stroke Recovery &amp; Rehabilitation Accelerometry</td>
<td>Margheretta D. Bland, PT, DPT, NCS</td>
</tr>
<tr>
<td>Whole Body &amp; Joint-Level Orthopaedic Biomechanics</td>
<td>Michael D. Harris, PhD</td>
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</tbody>
</table>

Movement Science Research Center

The Movement Science Research Center is approximately 13,000 square feet of newly renovated space that provides a collaborative environment for faculty, PhD students, and postdoctoral fellows to conduct rehabilitation research.

The facility includes numerous private rooms for clinical interventions and state-of-the-art equipment.

Equipment List

- Accelerometer activity monitors
- Gene and protein quantification
- Balance platform
- Histology
- Biological sample processing equipment
- Motion capture
- Cell culture suite
- Muscle physiology testing equipment
- Dynamometers
- Oscilloscopes
- Electromyography
- Rotating treadmill
- Eye tracking
- Simulated spaces for functional activities
- Force platforms
- Split-belt treadmill
- Function generators
- Treadmills
- GAITRite instrumented walkway
- Wheel mill system

Research Training Programs

We offer physical therapy research training programs designed to prepare students at the doctoral and postdoctoral levels for careers in groundbreaking physical therapy research.

PhD in Movement Science

Under the Movement Science Program, students work on the research topics that interest them while completing course work that prepares them for their research careers. The Movement Science Program encourages collaboration with other departments within the School of Medicine.

Visit our website for more information about our Movement Science Program (https://pt.wustl.edu/education/phd-in-movement-science).
**Postdoctoral Fellowship in Movement Science**

Our Postdoctoral Fellowship in Movement Science offers an opportunity to develop and complete research projects related to movement science and rehabilitation. Fellows are encouraged to collaborate with other faculty and programs in the School of Medicine.

Visit our website for more information about our Postdoctoral Fellowship [here](https://pt.wustl.edu/education/postdoctoral-fellowship-in-movement-science).

**Faculty**

**Division Director of Education**

Jennifer Stith, PT, PhD, LCSW

**Division Director of Research**

Michael Mueller, PT, PhD, FAPT

**Division Director of Clinical Practice**

Beth Crowder, PT, DPT, NCS, MPPA

Visit our website for more information about our faculty [here](https://pt.wustl.edu/faculty-staff/faculty) and their appointments.

**A**

Amy J Bastian, PHD
Adjunct Assistant Professor of Physical Therapy (primary appointment)
BS University of Oklahoma 1990
PHD Washington Univ in St. Louis 1995

Marghuretta Dakota Bland, DPT, MS
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Neurology
Assistant Professor of Occupational Therapy
DPT Washington Univ in St. Louis 2008
MS Washington Univ in St. Louis 2008
BS Canisius College 2004

Marybeth Brown, PHD, MA
Adjunct Associate Professor of Physical Therapy (primary appointment)
BS Russell Sage College 1987
PHD University of Southern Calif 1984
MA University of Southern Calif 1974

Tamara Lavon Burlis, MHS, DPT
Professor of Physical Therapy (primary appointment)
Assistant Director of Professional Curriculum in Physical Therapy
Associate Director for Clinical Education in Physical Therapy
Professor of Medicine
MHS Washington Univ in St. Louis 1993
BA Wartburg College 1988

DPT Washington Univ in St. Louis 2003
BS Washington Univ in St. Louis 1988

**C**

William Todd Cade, MS, PHD
Professor of Physical Therapy (primary appointment)
Associate Director of Postdoctoral Fellowships in Physical Therapy
Professor of Medicine
MS University of Miami 1994
PHD University of Maryland 2002
BS University of Maryland 1991

Cheryl Ann Caldwell, MHS, DPT
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Orthopaedic Surgery
MHS Washington Univ in St. Louis 1988
BS University of Colorado Boulder 1976
DPT Washington Univ in St. Louis 2002

Billie Ruth Clark, PHD
Professor of Physical Therapy (primary appointment)
Professor of Neurology
BS Saint Louis University 1974
PHD Saint Louis University 1988

Suzanne Marie Cornbleet, MA, DPT
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Orthopaedic Surgery
MA Washington Univ in St. Louis 1987
BS University of Colorado Boulder 1975
DPT Washington Univ in St. Louis 2003

Beth Elaine Crowner, BS PT, MS, M PP, DPT
Professor of Physical Therapy (primary appointment)
Division Director of Clinical Practice in Physical Therapy
Professor of Neurology
BS PT Washington Univ in St. Louis 1989
MS Washington Univ in St. Louis 1989
M PP University of MO St Louis 1997
DPT Washington Univ in St. Louis 2007

Sylvia Lin Czuppon, MS, DPT
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Orthopaedic Surgery
BA Washington Univ in St. Louis 2000
MS Washington Univ in St. Louis 2002
DPT Washington Univ in St. Louis 2011

**D**

Ryan Michael DeGeeter, DPT
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Orthoepaeic Surgery
BS Ball State University 2007
DPT Washington Univ in St. Louis 2010

Ryan Patrick Duncan, DPT, MS
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Neurology
DPT Washington Univ in St. Louis 2012
MS Maryville University 2008
BS Maryville University 2007

Gammon Marie Earhart, PHD, MS
Professor of Physical Therapy (primary appointment)
Executive Director of the Program in Physical Therapy
Professor of Neurology
Professor of Neuroscience
PHD Washington Univ in St. Louis 2000
BS Beaver College 1994
MS Beaver College 1996

Michael Dennison Harris, PHD
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Mechanical Engineering and Materials Science (Title of Standing)
Assistant Professor of Orthopaedic Surgery
BS University of Utah 2007
PHD University of Utah 2013

Mary Kent Hastings, MS, DPT
Professor of Physical Therapy (primary appointment)
Professor of Orthopaedic Surgery
MS Washington Univ in St. Louis 1993
BS University of Illinois 1990
DPT Washington Univ in St. Louis 2002

Marcie Harris Hayes, DPT, MS
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Orthopaedic Surgery
DPT Washington Univ in St. Louis 2003
BS Southwest Missouri St Universi 1994
MS Northwestern University 1996

Carey Lane Holleran, MS, PHD
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Neurology
BS Duquesne University 2003
MS Duquesne University 2004
PHD University of Indianapolis 2014

Joseph W. Klaesner, PHD, MS, BS1
Professor of Physical Therapy (primary appointment)
Professor of Radiology
PHD Vanderbilt University 1995
MS Vanderbilt University 1993
BS Marquette University 1987
BS1 Marquette University 1987

Catherine Eckels Lang, PHD, MS
Professor of Physical Therapy (primary appointment)
Associate Director of Movement Science PhD Program in Physical Therapy
Professor of Neurology
Professor of Occupational Therapy
PHD Washington Univ in St. Louis 2001
BS University of Vermont 1993
MS University of Vermont 1997

Vanessa Mae Lanier, DPT
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Orthopaedic Surgery
DPT Washington Univ in St. Louis 2012
BS Washington Univ in St. Louis 2007

Mary Kate McDonnell, MHS, DPT
Associate Professor of Physical Therapy (primary appointment)
Associate Director of Residencies and Fellowships in Physical Therapy
Associate Professor of Orthopaedic Surgery
BS Saint Louis University 1981
MHS Washington Univ in St. Louis 1985
DPT Washington Univ in St. Louis 2003

Patricia Navarro McGee, DPT
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Orthopaedic Surgery
BA Washington Univ in St. Louis 2001
BA Washington Univ in St. Louis 2001
DPT Washington Univ in St. Louis 2004

Gretchen Ann Meyer, PHD, MS
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Neurology
Assistant Professor of Orthopaedic Surgery
PHD University of CA San Diego 2011
MS Washington Univ in St. Louis 2004
BS Washington Univ in St. Louis 2004
Jennifer Alaine Miller-Katsafanas, DPT, BBA, DPT
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Obstetrics and Gynecology
BA University of MO St Louis 1996
DPT Washington Univ in St. Louis 2012
BA University of MO St Louis 1996
BBA University of MO St Louis 1996
DPT Washington Univ in St. Louis 2012
Michael Jeffrey Mueller, MHS, PHD
Professor of Physical Therapy (primary appointment)
Division Director of Research in Physical Therapy
Professor of Radiology
BS Washington Univ in St. Louis 1979
MHS Washington Univ in St. Louis 1984
PHD Washington Univ in St. Louis 1992
Barbara Jean Norton, MHS, PHD
Professor of Physical Therapy (primary appointment)
Associate Director for Education Technology in Physical Therapy
Professor of Neurology
BS Washington Univ in St. Louis 1966
MHS Washington Univ in St. Louis 1985
PHD Washington Univ in St. Louis 1996
Diana C. Parra Perez, PHD, MS
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Surgery (Prevention and Control)
BA Universidad del Rosario 2001
PHD Washington Univ in St. Louis 2013
MS Saint Louis University 2008
Susan B. Racette, PHD
Professor of Physical Therapy (primary appointment)
Professor of Medicine
BS Bucknell University 1988
PHD University of Chicago 1994
Shirley Ann Sahrmann, PHD, MA
Professor Emeritus of Physical Therapy (primary appointment)
BS Washington Univ in St. Louis 1958
PHD Washington Univ in St. Louis 1973
MA Washington Univ in St. Louis 1971
Nancy Bloom Smith, DPT, MS
Professor of Physical Therapy (primary appointment)
Professor of Orthopaedic Surgery
DPT Washington Univ in St. Louis 2002
MS Washington Univ in St. Louis 1979
BS Washington Univ in St. Louis 1984
BA University of Virginia 1976
Theresa M Spitznagle, MHS, DPT
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Obstetrics and Gynecology
MHS Washington Univ in St. Louis 1994
BS Marquette University 1986
DPT Washington Univ in St. Louis 2006
Jennifer S Stith, MS, MSW, PHD
Professor of Physical Therapy (primary appointment)
Associate Director of Professional Curriculum in Physical Therapy
Division Director for Education in Physical Therapy
Professor of Neurology
MS University of Southern Calif 1979
BS University of California 1976
MSW Washington Univ in St. Louis 2006
PHD Washington Univ in St. Louis 1994
Stacy Lynne Tylka, DPT, MS
Associate Professor of Physical Therapy (primary appointment)
Associate Professor of Obstetrics and Gynecology
Associate Professor of Orthopaedic Surgery
DPT Washington Univ in St. Louis 2009
MS Saint Louis University 2002
BS Saint Louis University 2000
Linda R Van Dillen, PHD, MS
Professor of Physical Therapy (primary appointment)
Associate Director of Research in Physical Therapy
Professor of Orthopaedic Surgery
PHD Washington Univ in St. Louis 1994
MS Washington Univ in St. Louis 1985
BS University of Missouri 1979
Pamela M. Wendl, DPT, MS
Assistant Professor of Physical Therapy (primary appointment)
Assistant Professor of Orthopaedic Surgery
BS North Park College 1991
DPT Washington Univ in St. Louis 2007
MS Washington Univ in St. Louis 1993
Courses
Visit online course listings to view semester offerings for M02 PhysTher (https://courses.wustl.edu/CourseInfo.aspx?sch=M&dept=M02).
M02 PhysTher 5001 Independent Study
Independent research work under supervision of a faculty member in the Program in Physical Therapy. Prerequisite: junior or senior standing and permission of faculty. Petition forms are available from Dr. Clark. Credit variable, maximum 6 units.

M02 PhysTher 601 Diagnosis and Evidence Analysis in PT Practice I
Includes processes required for effective clinical decision-making such as the use of disablement models, decision trees, diagnostic classification systems, patient interviewing and outcome measures. An introduction to basic research methods and systematic review of the literature. Patient cases will be used to practice clinical decision-making skills. Credit 2 units.

M02 PhysTher 602 Professional Issues and Skills I
An introduction to the profession of physical therapy, the APTA, professional behavior and clinical activities such as documentation and quality improvement. Includes ethics, legal issues and policies that guide professional behavior. Students will learn and practice using principles of patient teaching, negotiation and team building. Students will spend 80 hours at clinical sites. Credit 3 units.

M02 PhysTher 603 Essential Clinical Skills I
Beginning skills for patient management include using systems screening and reliable assessment of impairments including visual appraisal, vital signs, sensation, reflexes, pain, range of motion, muscle strength and infection control. Skill and safety in positioning, draping and managing equipment during patient care activities such as walking and transfers will be developed. Credit 4 units.

M02 PhysTher 604 Cells, Systems and Disease I
The first of a two-semester course, this course focuses on advanced human physiology and pathological mechanisms of disease. Course content emphasizes cellular and organ system physiology, pathological mechanisms of disease, and medical management of pathological conditions. Physicians will discuss medical diagnosis, clinical signs and symptoms, and management of selected diseases. Students will be introduced to pharmacology and to the relevance of clinical laboratory values. Patient case studies will be used to integrate information. Credit 4 units.

M02 PhysTher 605 Neuroscience
Focuses on the study of structures, organization and function of the nervous and muscular systems. Emphasis is on the sensory and motor systems involved in motor control and on basic knowledge required for clinical practice. Credit 3 units.

M02 PhysTher 606 Kinesiology I
An introduction to the analysis of normal human movement activities through the application of mechanical concepts including displacement, velocity, acceleration, force and torque. Emphasizes kinematic and kinetic concepts relevant to human movement and study of the structures involved in movement. Credit 3 units.

M02 PhysTher 607 Kinesiology II
Emphasizes principles of maturation and motor learning relative to the application of biomechanical principles to the analysis of human movement. Standardized methods of characterizing movement by observation and with the use of technology will be addressed. Topics include developmental, anatomical, electromyographical and physiological elements of kinesiology with regard to individual joints and common functional activities such as gait and transitional movements. Credit 5 units.

M02 PhysTher 610 Cells, Systems and Disease II
A continuation of the first semester. Open only to individuals enrolled in the Physical Therapy program. Credit 4 units.

M02 PhysTher 611 Human Anatomy
Emphasis is on: 1) Musculoskeletal, neural and vascular systems of the extremities, head, neck and trunk; and 2) anatomical features relevant to current physical therapy practice. Lectures are complemented by student-performed dissection of human cadavers, instructor-prepared prosections and computer-assisted instruction. Open only to individuals enrolled in the Physical Therapy program. Credit 5 units.

M02 PhysTher 612 Diagnosis and Evidence Analysis in PT Practice II
Continuation of research methods from the first semester, including use of statistics and outcome measurements. Students will complete a reliability project and write a paper based on the literature. Cases will permit further practice using decision trees and assigning diagnoses of basic movement-related conditions. Open only to individuals enrolled in the Physical Therapy program. Credit 2 units.

M02 PhysTher 613 Kinesiology II
Emphasizes principles of maturation and motor learning relative to the application of biomechanical principles to the analysis of human movement. Standardized methods of characterizing movement by observation and with the use of technology will be addressed. Topics include developmental, anatomical, electromyographical and physiological elements of kinesiology with regard to individual joints and common functional activities such as gait and transitional movements. Credit 5 units.

M02 PhysTher 614 Diagnosis and Management of Musculoskeletal Conditions in PT I
Students will learn postural assessment and application of Movement Systems Balance. Analysis of functional activities, the essential components and compensatory strategies, will prepare the student to begin to plan interventions for individuals with musculoskeletal problems. Skill in providing interventions of manual exercise, fitness training and functional mobility training will be developed. Cases will provide use of diagnostic systems relevant to musculoskeletal conditions. Credit 5 units.

M02 PhysTher 615 Professional Issues and Skills Development II
Students will be assigned to part-time clinical experiences for 45 hours to allow practice of acquired skills in patient care, documentation and communication. Credit 0.5 units.

M02 PhysTher 621 Exercise Physiology
A study of the responses of various physiological systems to exercise. Includes application and integration of these
Therapy program. management and concepts of wellness. Age-related issues will health attitudes, personal values, family interaction, stress relationships and exercise adherence. Investigates individual on individual goals, motivation, expectations, interpersonal Designed to explore individual attitudes toward health, illness, and management of Neuromuscular Conditions in PT. Open only to individuals enrolled in the Physical Therapy program. Credit 2 units.

M02 PhysTher 625 Diagnosis and Management of Cardiopulmonary Conditions in PT Students will learn to assess, diagnose and treat movement-related cardiopulmonary conditions. Treatment techniques will include exercise and conditioning, breathing techniques, postural drainage and percussion. Interpretation of laboratory tests and pharmacology will prepare students to work with patients safely. Case studies will prepare students for general practice. Open only to individuals enrolled in the Physical Therapy program. Credit 3 units.

M02 PhysTher 626 Diagnosis and Management of Musculoskeletal Conditions in PT II Students will acquire the skills needed to manage movement-related musculoskeletal problems of the spine and lower quarter. Acute and post-acute care will be addressed. Functional activities across the life span will be addressed. Open only to individuals enrolled in the Physical Therapy program. Credit 3 units.

M02 PhysTher 627 Essential Clinical Skills II Skill in providing interventions including massage and mobilization and the application of thermal, mechanical, hydro and electrotherapeutic modalities will be developed. Students will learn the basic indications for and prescription of adaptive equipment and wheelchairs. Open only to individuals enrolled in the Physical Therapy program. Credit 3 units.

M02 PhysTher 628 Case Integration Lab I Paper, video and live patient cases provided by faculty and students will be completed to provide practice in managing patients with varying movement-related diagnoses of the cardiopulmonary and musculoskeletal systems. Open only to individuals enrolled in the Physical Therapy program. Credit 1 unit.

M02 PhysTher 629 Diagnosis and Management of Neuromuscular Conditions in PT I Students will acquire the skills to examine patients with neuromuscular disorders. Emphasis will be on screening, selecting tests and measures, examination, determining impairments and functional loss, and making a movement system diagnosis. Students will practice examining both adult and pediatric patients. Content related to motor control and motor learning will be integrated into the course. Course content will be integrated with the concurrent Neurology Medicine course. Open only to individuals enrolled in the Physical Therapy program. Credit 2 units.

M02 PhysTher 630 Professional Issues and Skill Development III Focuses on clinical application of compliance and motivation principles. Peer teaching, communication, consultation skills, leadership skills, lobbying legislation, documentation and negotiation in the clinic will be practiced. Students will practice decision making, supervision and delegation. Students will prepare résumés and begin career planning. Credit 3 units.

M02 PhysTher 631 Diagnosis and Management of General Medical Conditions in PT Students will acquire the skills needed to manage movement-related problems in patients with diabetes, burns, arthritis, wounds, amputation and prosthetics, obesity, oncological problems, incontinence, pain, genetic conditions, osteoporosis, malnutrition, transplants and neonatology. Integration of information from previous and concurrent courses will be stressed with emphasis on screening, examination, analysis of findings, diagnosis, design and implementation of intervention programs for patients with increasingly complex problems. Functional activities across the life span will be addressed. Credit 3 units.

M02 PhysTher 632 Diagnosis and Management of Musculoskeletal Conditions in PT III Students will acquire the skills needed to manage and prevent movement-related musculoskeletal problems of the spine, neck, elbow, wrist and hand, ankle and foot. Integration of information
from previous and concurrent courses will be stressed with emphasis on screening, examination, analysis of findings, diagnosis, design and implementation of intervention programs for acute and post-acute patients with increasingly complex problems. Functional activities across the life span will be addressed.
Credit 3 units.

M02 PhysTher 642 Case Integration Lab II
Students will use paper, computer, video and live patients to integrate information learned across the curriculum. Students will orally present cases they managed during Clinical Experience II.
Credit 1 unit.

M02 PhysTher 643 Diagnosis and Management of Neuromuscular Conditions in PT II
Students will build on their skills for examining patients with neuromuscular disorders and diagnosing movement system dysfunction. Additional skills acquired will be designing and implementing intervention plans to address impairments and functional loss in patients of all ages. To aid in selecting appropriate interventions, students will consider patient prognosis. Students will learn to prescribe wheelchairs and orthotics, fabricate splints, apply kinesiotape, and use a variety of medical equipment. Motor control and motor learning principles will be integrated into the course. Open only to individuals enrolled in the Physical Therapy program.
Credit 4 units.

M02 PhysTher 650 Diagnosis and Evidence Analysis in PT Practice III
Students will prepare written case reports based on patients seen during their clinical experiences. Students will defend use of diagnostic classifications and integrate the literature to support their case. Students will practice selecting appropriate outcome measures, designing clinical research questions, and use data to make decisions about individual and group treatment.
Credit 3 units.

M02 PhysTher 651 Organizational and Management Issues
Dynamics of organizations and departments will be discussed using case examples. Focuses on the knowledge and skills needed by physical therapists early in their careers. Principles of administration and management that enable the physical therapist to supervise supportive personnel, to understand fiscal issues including reimbursement, and to recommend staffing schedules and patterns will be addressed. Students will learn marketing and public relations strategies.
Credit 3 units.

M02 PhysTher 652 Alternative Settings and Practice Environments
Physical therapy practice in work and community settings will be addressed with an emphasis on ergonomics and group treatment. Special PT tests and the interpretation of other tests will be integrated into cases. Students will be introduced to care for the patient with vestibular problems, care in the ER, and an update in genetics/genomics. Alternative medicine and alternative PT practice will be studied. Students will explore recreational options for disabled populations.
Credit 3 units.

M02 PhysTher 653 Health Fitness and Prevention
Emphasis will be on critiquing and designing fitness and wellness programs for well and special populations. Programs will focus on those for employee fitness, diabetes, arthritis, obesity and the elderly. Students will participate in and evaluate group treatments and recreational exercise. Use of exercise equipment will be addressed.
Credit 3 units.

M02 PhysTher 654 Case Integration Lab III
A variety of teaching methods, including rounds format, assessment centers and student presentations will enable students to integrate information from across the curriculum to complete complex case studies. Emphasis will be on pharmacology, other tests, moderators, establishing time frames and setting priorities for care. Age-related issues will be addressed.
Credit 3 units.

M02 PhysTher 655 Professional Issues and Skill Development IV
Focus will be on the professional skills students need to function in entry-level practice in a variety of settings. Students will study licensure, and will participate in lobbying and a mock House of Delegates. Skills in serving as an expert witness, a leader, a peer instructor and in clinical instruction will be developed. Students will be expected to participate in a service project and activities of the American Physical Therapy Association. Cultural and race issues will be actively explored.
Credit 4 units.

M02 PhysTher 691 Clinical Experience I
An eight-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes development of professional behaviors.
Credit 4 units.

M02 PhysTher 691A Clinical Experience I
An eight-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes development of professional behaviors. Off-campus.
Credit 4 units.

M02 PhysTher 692 Clinical Experience II
An eight-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes development of professional behaviors.
Credit 4 units.

M02 PhysTher 692A Clinical Experience II
An eight-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes development of professional behaviors.
Credit 4 units.

M02 PhysTher 693 Clinical Experience III
A 10-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment
skills acquired in the classroom and laboratory. Also emphasizes the development of professional behaviors. Credit 5 units.

M02 PhysTher 693A Clinical Experience III  
A 10-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes the development of professional behaviors. Open only to individuals enrolled in the Physical Therapy program. Off-campus. Credit 5 units.

M02 PhysTher 694 Clinical Experience IV  
A 12-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes the development of professional behaviors. Credit 6 units.

M02 PhysTher 694A Clinical Experience IV  
A 12-week, full-time clinical experience supervised by clinical faculty. Allows the student to practice evaluation and treatment skills acquired in the classroom and laboratory. Also emphasizes the development of professional behaviors. Open only to individuals enrolled in the Physical Therapy program. Off-campus. Credit 6 units.