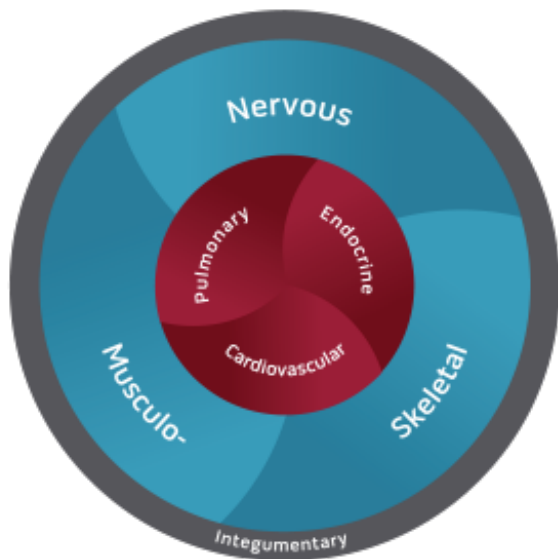


# Physical Therapy

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 two formal curricula that collectively foster opportunities for lifelong learning and comprehensive career development: the Doctor of Physical Therapy and the PhD in Movement Science.

## 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. This system consists of physiological organ systems that interact to produce and support the 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. 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), 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 through 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

Phone: 314-286-1400  
Email: [ptadmissions@email.wustl.edu](mailto:ptadmissions@email.wustl.edu)  
Website: <https://pt.wustl.edu>

## Degrees & Offerings

- Doctor of Physical Therapy
- PhD in Movement Science

## Research

The mission of the Research Division is to understand how the movement system 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 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.

Our doctoral and postdoctoral Research Training Programs prepare students for careers at the forefront of physical therapy and movement science research.

## Research Areas

| Research Area  | Faculty Investigators                |
|--|--------------------------------------|
| Foot & Ankle Injury & Recovery   | Mary K. Hastings, PT, DPT, MSCI, ATC |
| Integrative Muscle Physiology  | Gretchen A. Meyer, PhD               |
| Movement & Neurodegenerative Disease                                   | Gammon M. Earhart, PT, PhD           |
| Movement & Neurodegenerative Disease                                   | Ryan P. Duncan, PT, DPT              |
| Neural Control of Movement Following Neurological Injury               | Laura McPherson, PT, DPT, PhD        |
| Neural Plasticity and Sensorimotor Integration                         | Jacob McPherson, PhD                 |
| Orthopaedic Biomechanics   | Michael D. Harris, PhD               |
| Prevention, Rehabilitation & Maintenance in Musculoskeletal Conditions | Linda Van Dillen, PT, PhD, FAPTA     |

|   |                                      |
|---|--------------------------------------|
| Quantitative Methodology and Rehabilitation Informatics | Keith Lohse, PhD, PStat              |
| Rehabilitation Research for Orthopaedic Conditions      | Marcie Harris-Hayes, PT, DPT, MSCI   |
| Shoulder Biomechanics and Rehabilitation                | Rebekah Lawrence, PT, PhD            |
| Stroke Recovery & Rehabilitation Accelerometry          | Catherine Lang, PT, PhD              |
| Stroke Recovery & Rehabilitation Accelerometry          | Marghureta D. Bland, PT, DPT, NCS    |
| Stroke Recovery, Rehabilitation, and Accelerometry      | Carey L. Holleran, PT, MPT, DHS, NCS |
| Tendon Rehabilitation                                   | Jennifer Zellers, PT, DPT PhD        |
| Whole Body & Joint-Level Orthopaedic Biomechanics       | Michael D. Harris, PhD               |

## 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                             |
| Biplane videoradiography               | Muscle physiology testing equipment        |
| Cell culture suite                     | Oscilloscopes                              |
| Dynamometers                           | Rotating treadmill                         |
| Electromyography                       | Simulated spaces for functional activities |
| Eye tracking                           | Split-belt treadmill                       |
| Force platforms                        | Treadmills                                 |
| Function generators                    | Wheel mill system                          |
| GAITRite instrumented walkway          |  |

## 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 the Program in Physical Therapy website for more information about the Movement Science Program.

## 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 the Program in Physical Therapy website for more information about the Postdoctoral Fellowship.

## Comprehensive Opportunities in Rehabilitation Research Training Program

The Comprehensive Opportunities in Rehabilitation Research Training (CORRT) Program is a multicenter career development program for physical and occupational therapists.

Visit the CORRT website for more information about the CORRT Program.

## Institute of Clinical and Translational Sciences

The Institute of Clinical and Translational Sciences (ICTS) offers programs designed to support investigators at each phase of their clinical and translational research studies.

Visit the ICTS website for more information about the ICTS .

## Clinical Research Training Center

The Clinical Research Training Center (CRTC) fosters clinical research training and career development for predoctoral students, house staff, postdoctoral fellows and faculty.

Visit the CRTC website for more information about the CRTC .

## Faculty

**Gammon Earhart, PT, PhD**

Executive Director, Program in Physical Therapy

**Steve Ambler, PT, DPT, PhD, MPH**

Division Director of Education

**Tammy L. Burlis, PT, DPT, CCS**

Director of Clinical Education

**Linda Van Dillen, PT, PhD, FAPTA**

Division Director of Research

**Gregory Holtzman, PT, DPT, SCS**

Division Director of Clinical Practice

Visit our website for more information about our faculty and their appointments.

## A

**Steven B Ambler, M.P.H., D.P.T., Ph.D.**

Professor of Physical Therapy (primary appointment)  
Division Director of Professional Curriculum in Physical Therapy  
Professor of Orthopedic Surgery  
DPT Program Director of Physical Therapy  
Bachelor of Science, University of Illinois at Urbana-Champaign, 2002  
Doctor of Physical Therapy, Washington University in St Louis, 2005  
Master of Public Health, University of South Florida, 2014  
Doctor of Philosophy, University of South Florida, 2016

## B

**Marghuretta Dakota Bland, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Neurology  
Professor of Occupational Therapy  
Bachelor of Science, Canisius College, 2004  
Master of Science, Washington University in St Louis, 2008  
Doctor of Physical Therapy, Washington University in St Louis, 2008

**Megan Maupin Burgess, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, University of Virginia, 2006  
Doctor of Physical Therapy, Washington University in St Louis, 2010

**Tamara Lavon Burlis, M.H.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Director for Clinical Education in Physical Therapy  
Associate Director of Professional Curriculum in Physical Therapy  
Professor of Medicine  
Bachelor of Arts, Wartburg College, 1988  
Bachelor of Science, Washington University in St Louis, 1988  
Master of Health Science, Washington University in St Louis, 1993  
Doctor of Physical Therapy, Washington University in St Louis, 2003

## C

**Billie Ruth Clark, Ph.D.**

Emeritus Professor of Physical Therapy  
Bachelor of Science, Saint Louis University, 1974  
Doctor of Philosophy, Saint Louis University, 1988

**Beth Elaine Crouner, M.P.P., M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)

Professor of Neurology

Bachelor of Science, Washington University in St Louis, 1989  
Master of Science, Washington University in St Louis, 1989  
Master of Public Policy, University of Missouri in St Louis, 1997  
Doctor of Physical Therapy, Washington University in St Louis, 2007

**Mary Maureen Crumley, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Arts, Luther College Iowa, 2011  
Bachelor of Science, Luther College Iowa, 2011  
Doctor of Physical Therapy, Saint Ambrose University, 2013

## D

**Robert H Deusinger, M.S., Ph.D.**

Associate Professor Emeritus of Physical Therapy  
Bachelor of Science, Slippery Rock University (Duplicate of Slippery Rock University of Pennsylvania), 1967  
Master of Science, University of Massachusetts (Duplicate of University of Massachusetts Amherst), 1968  
Doctor of Philosophy, University of Iowa, 1981

**Susan S. Deusinger, M.A., Ph.D.**

Professor Emeritus of Physical Therapy  
Bachelor of Science, University of Kansas, 1969  
Master of Arts, Washington University in St Louis, 1980  
Doctor of Philosophy, Washington University in St Louis, 1987

**Ryan Patrick Duncan, M.S., D.P.T.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Neurology  
Bachelor of Science, Maryville University of Saint Louis, 2007  
Doctor of Physical Therapy, Washington University in St Louis, 2012  
Master of Science, Washington University in St Louis, 2018

## E

**Gammon Marie Earhart, M.S., Ph.D.**

Professor of Physical Therapy (primary appointment)  
Associate Dean for Physical Therapy  
Professor of Neurology  
Professor of Neuroscience  
Bachelor of Science, Arcadia University, 1994  
Master of Science, Arcadia University, 1996  
Doctor of Philosophy, Washington University in St Louis, 2000

## G

**Kristopher Gordon, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, Murray State University, 2005  
Doctor of Physical Therapy, University of Missouri Columbia, 2014

## H

**Michael Dennison Harris, Ph.D.**

Associate Professor of Physical Therapy (primary appointment)

Associate Professor of Orthopedic Surgery  
Bachelor of Science, University of Utah, 2007  
Doctor of Philosophy, University of Utah, 2013

**Mary Kent Hastings, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Orthopedic Surgery  
Bachelor of Science, University of Illinois at Urbana-Champaign, 1990  
Master of Science, Washington University in St Louis, 1993  
Doctor of Physical Therapy, Washington University in St Louis, 2002

**Marcie Harris Hayes, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Orthopedic Surgery  
Bachelor of Science, Missouri State University (Formerly Southwest Missouri State), 1994  
Master of Science, Northwestern University, 1996  
Doctor of Physical Therapy, Washington University in St Louis, 2003

**Carey Lane Holleran, M.P.T., D.H.Sc.**

Associate Professor of Physical Therapy (primary appointment)  
Assistant Director of Student Assessment and Program Evaluation in Physical Therapy  
Associate Professor of Neurology  
Bachelor of Science, Duquesne University, 2003  
Master of Physical Therapy, Duquesne University, 2004  
Doctor of Health Science, University of Indianapolis, 2014

**Gregory William Holtzman, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Division Director of Clinical Practice in Physical Therapy  
Professor of Orthopedic Surgery  
Bachelor of Arts, Emory University, 1995  
Master of Science, Washington University in St Louis, 2001  
Doctor of Physical Therapy, Washington University in St Louis, 2007

**Elizabeth Hughes, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Science, Saint Louis University, 2016  
Doctor of Physical Therapy, Saint Louis University, 2018

**I**

**Renee A. Ivens, M.H.S., D.P.T.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Orthopedic Surgery  
Bachelor of Science, Maryville University of Saint Louis, 1984  
Master of Health Science, Washington University in St Louis, 1996  
Doctor of Physical Therapy, Washington University in St Louis, 2006

**J**

**Jill Kristine Johnson, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Doctor of Physical Therapy, Washington University in St Louis, 2006

**K**

**Lynnette C Khoo-Summers, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Orthopedic Surgery  
Bachelor of Arts, Colorado State University, 1990  
Master of Science, Washington University in St Louis, 1998  
Doctor of Physical Therapy, Washington University in St Louis, 2008

**Jeffrey Daniel Konrad, D.P.T., Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Science, University of Wisconsin Milwaukee, 2008  
Doctor of Physical Therapy, University of Wisconsin Milwaukee, 2011  
Doctor of Philosophy, Washington University in St Louis, 2024

**L**

**Catherine Eckels Lang, M.S., Ph.D.**

Professor of Physical Therapy (primary appointment)  
Associate Director of Movement Science PhD Program in Physical Therapy  
Professor of Neurology  
Professor of Occupational Therapy  
Barbara J Norton Professor of Physical Therapy  
Bachelor of Science, University of Vermont, 1993  
Master of Science, University of Vermont, 1997  
Doctor of Philosophy, Washington University in St Louis, 2001

**Vanessa Mae Lanier, D.P.T.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Orthopedic Surgery  
Bachelor of Science, Washington University in St Louis, 2007  
Doctor of Physical Therapy, Washington University in St Louis, 2012

**Rebekah Lawrence, D.P.T., Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, Bradley University, 2006  
Doctor of Physical Therapy, Saint Ambrose University, 2008  
Doctor of Philosophy, University of Minnesota, 2018

**Sylvia Lin, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Orthopedic Surgery  
Bachelor of Arts, Washington University in St Louis, 2000  
Master of Science, Washington University in St Louis, 2002  
Doctor of Physical Therapy, Washington University in St Louis, 2011

**Keith Robert Lohse, M.A., Ph.D.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Neurology  
Master of Arts, University of Colorado Boulder, 2009  
Doctor of Philosophy, University of Colorado Boulder, 2012

**M**

**Julian Magee, D.P.T.**

Associate Professor of Physical Therapy (primary appointment)

Associate Professor of Orthopedic Surgery  
Associate Director of Student Affairs & Employee Engagement  
Associate of Science, Hinds Community College, 2001  
Bachelor of Science, University of West Alabama, 2004  
Doctor of Physical Therapy, Alabama State University, 2007

**Ammar Mahmood, Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
Associate of Science, Metropolitan Community College-Kansas City, 2012  
Bachelor of Science, University of Missouri Kansas City, 2015  
Doctor of Philosophy, Saint Louis University, 2023

**Patricia Navarro McGee, D.P.T.**

Associate Professor of Physical Therapy (primary appointment)  
Assistant Director of Clinical Education in Physical Therapy  
Associate Professor of Orthopedic Surgery  
Associate Professor of Pediatrics  
Bachelor of Arts, Washington University in St Louis, 2001  
Doctor of Physical Therapy, Washington University in St Louis, 2004

**Jacob Graves McPherson, M.S., Ph.D.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Anesthesiology  
Bachelor of Science, University of North Carolina at Asheville, 2005  
Master of Science, Northwestern University, 2008  
Doctor of Philosophy, Northwestern University, 2011

**Laura Crego Miller McPherson, D.P.T., Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Science, Vanderbilt University, 2006  
Doctor of Physical Therapy, Northwestern University, 2012  
Doctor of Philosophy, Northwestern University, 2014

**Gretchen Ann Meyer, M.S., Ph.D.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Neurology  
Associate Professor of Orthopedic Surgery  
Bachelor of Science, Washington University in St Louis, 2004  
Master of Science, Washington University in St Louis, 2004  
Doctor of Philosophy, University of California San Diego, 2011

**Jennifer Elaine Miller-Katsafanas, D.P.T.**

Associate Professor of Physical Therapy (primary appointment)  
Associate Professor of Obstetrics and Gynecology  
Bachelor of Arts, University of Missouri in St Louis, 1996  
Doctor of Physical Therapy, Washington University in St Louis, 2012

**Michael Jeffrey Mueller, M.H.S., Ph.D.**

Professor Emeritus of Physical Therapy  
Bachelor of Science, Washington University in St Louis, 1979  
Master of Health Science, Washington University in St Louis, 1984  
Doctor of Philosophy, Washington University in St Louis, 1992

## N

**Barbara Jean Norton, M.H.S., Ph.D.**

Professor of Physical Therapy (primary appointment)  
Associate Director of Education Technology in Physical Therapy

Professor of Neurology  
Bachelor of Science, Washington University in St Louis, 1966  
Master of Health Science, Washington University in St Louis, 1985  
Doctor of Philosophy, Washington University in St Louis, 1996

## P

**Deborah Athena Rose Rennard Priluck, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Arts, Grinnell College, 2010  
Bachelor of Science, Grinnell College, 2010  
Doctor of Physical Therapy, Washington University in St Louis, 2019

## R

**Jessica Randolph, M.S., Ed.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Assistant Director of Learning and Continuous Improvement in Physical Therapy  
Bachelor of Arts, Carthage College, 2007  
Master of Science, Logan College of Chiropractic, 2008  
Doctor of Education, Lindenwood University, 2017

**Sarah Jane Rands**

No Rank

**Kerri S Rawson, M.S., Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Neurology  
Bachelor of Arts, University of Texas Austin, 2004  
Master of Science, University of South Florida, 2009  
Doctor of Philosophy, University of South Florida, 2012

## S

**Shirley Ann Sahrman, M.A., Ph.D.**

Professor Emeritus of Physical Therapy  
Bachelor of Science, Washington University in St Louis, 1958  
Master of Arts, Washington University in St Louis, 1971  
Doctor of Philosophy, Washington University in St Louis, 1973

**David R Sinacore, M.H.S., Ph.D.**

Voluntary Research Professor of Physical therapy  
Bachelor of Science, State University of New York, 1979  
Master of Health Science, Washington University in St Louis, 1983  
Doctor of Philosophy, West Virginia University, 1992

**Alyssa Nicole Skala, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, University of California Irvine, 2011  
Doctor of Physical Therapy, Washington University in St Louis, 2016

**Nancy Bloom Smith, M.S., D.P.T.**

Emeritus Professor of Physical Therapy  
Bachelor of Arts, University of Virginia, 1976  
Master of Science, Washington University in St Louis, 1979  
Bachelor of Science, Washington University in St Louis, 1984

Doctor of Physical Therapy, Washington University in St. Louis, 2002

**Theresa M Spitznagle, M.H.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Obstetrics and Gynecology  
Bachelor of Science, Marquette University, 1986  
Master of Health Science, Washington University in St. Louis, 1994  
Doctor of Physical Therapy, Washington University in St. Louis, 2006

**Jennifer S Stith, M.S., M.S.W., Ph.D.**

Professor Emerita of Physical Therapy  
Bachelor of Science, University of California, 1976  
Master of Science, University of Southern California, 1979  
Doctor of Philosophy, Washington University in St. Louis, 1994  
Master of Social Work, Washington University in St. Louis, 2006

## T

**Dale Allen Thuet, D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Arts, University of Missouri Columbia, 2004  
Doctor of Physical Therapy, Washington University in St. Louis, 2009

**Stacy Lynne Tylka, M.S., D.P.T.**

Professor of Physical Therapy (primary appointment)  
Professor of Orthopedic Surgery  
Professor of Obstetrics and Gynecology  
Bachelor of Science, Saint Louis University, 2000  
Master of Science, Saint Louis University, 2002  
Doctor of Physical Therapy, Washington University in St. Louis, 2009

## V

**Linda R Van Dillen, M.S., Ph.D.**

Professor of Physical Therapy (primary appointment)  
Division Director of Research in Physical Therapy  
Professor of Orthopedic Surgery  
Bachelor of Science, University of Missouri Columbia, 1979  
Master of Science, Washington University in St. Louis, 1985  
Doctor of Philosophy, Washington University in St. Louis, 1994

## W

**Corey B Woldenberg, D.H.Sc., D.P.T.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, University of Kentucky, 2007  
Doctor of Physical Therapy, Washington University in St. Louis, 2010  
null, Radford University, 2024

## Z

**Jennifer Ann Zellers, D.P.T., Ph.D.**

Assistant Professor of Physical Therapy (primary appointment)  
Assistant Professor of Orthopedic Surgery  
Bachelor of Science, Arcadia University, 2007  
Doctor of Physical Therapy, Columbia University, 2010  
Doctor of Philosophy, University of Delaware, 2018

## Courses

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**PHYSTHER 5001 Independent Study**

Independent research work under supervision of a faculty member in the Program in Physical Therapy. This course requires faculty permission. Forms are available from Dr. Clark.  
Credit 1-6 units.  
Typical periods offered: Fall, Spring

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**PHYSTHER 5890 Movement Science Dissertation**

Prerequisite, approval of movement science steering committee  
Credit 2 units.  
Typical periods offered: Spring

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**PHYSTHER 8101 Patient and Client Care 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to provide informed, effective, and efficient care for the management of movement-related health conditions and the promotion of health and wellness. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.  
Credit 0.5 units.  
Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8102 Knowledge for Practice 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to integrate knowledge from established and evolving movement and other relevant biomedical, clinical, epidemiological and social-behavioral sciences to guide practice. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.  
Credit 0.5 units.  
Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8103 Practice-Based Learning and Improvement 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to evaluate one's delivery of care, appraise and assimilate scientific evidence, and continuously improve performance based on self-evaluation. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.  
Credit 0.5 units.  
Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8104 Interpersonal & Communication Skills 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to use effective interpersonal and communication skills to interact and collaborate with others. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.  
Credit 0.5 units.  
Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8105 Professionalism 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to adhere to ethical and legal principles, model professional behaviors, and display a commitment to citizenship within the profession and the community. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.



Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8106 Systems-Based Practice 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to function effectively and proactively within evolving systems and environments that contribute to the health of individuals and populations. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8107 Interprofessional Collaboration 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to engage within interprofessional teams as an effective member and collaborative leader. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8108 Personal & Professional Development 1**

The learner will demonstrate a minimum of the level 1 benchmark in competency development to demonstrate the attributes required to engage in lifelong personal and professional growth. The learner will choose topics organized through the clinician/scholar/educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8110 Learning, Health and Equity**

Learners will explore the impact of health and equity on achieving our profession's vision: Transforming society by optimizing movement to improve the human experience. Faculty will describe the learner-centered academic physical therapy learning environment, and learners will engage in partnership with faculty to form the foundation for their shared success. Learners will be guided to understand the importance and utility of competency-based physical therapist education, learning science principles, and both the stages and attributes of the master adaptive learner in professional formation and lifelong professional development.

Credit 1 unit.

Typical periods offered: Fall

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**PHYSTHER 8120 Professions and Movement**

Learners will gain an understanding of their roles as ethical professionals and movement system practitioners. Faculty will guide learners' discovery of significant events in the history of the profession, with an emphasis on the concepts of movement and diagnosis. Faculty will introduce a model for integrating the movement system with health and movement across the lifespan. Learners will begin to develop skills in screening, interviewing, movement analysis, and clinical reasoning through case examples that will span the curriculum.

Credit 1 unit.

Typical periods offered: Fall

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**PHYSTHER 8130 Movement and Population Health**

Learners will integrate the foundations of movement and the movement system through a population health framework. The movement system practitioner's role in health promotion and prevention will prepare the learner to promote health and prevent movement-related problems for populations, groups, and individuals

across the lifespan. Learners will be guided in the understanding of social and structural systems, moving beyond the health care system, and how they impact the health of society and the individual. The learner will continue to develop the patient-client relationship and begin to demonstrate the communication skills necessary to work in interprofessional teams to promote health and prevent movement-related problems.

Credit 2 units.

Typical periods offered: Fall

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**PHYSTHER 8140 Movement and Precision Health**

Learners will focus on the role of the movement system practitioner in individual health. They will integrate the foundations of movement, the movement system, and foundations of movement-related conditions through a precision health framework that includes interactions across the spectrum of the environmental level to the cell molecular level. Learners will be guided in a basic understanding of the health care system and how it impacts the health of individuals. The learner will begin to prevent and manage movement-related problems for individuals across the lifespan while developing an understanding of their professional responsibilities in practice and how to identify areas for improvement in their practice.

Credit 10-15 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8191 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.

Typical periods offered: Spring, Summer

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**PHYSTHER 8201 Patient and Client Care 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to provide informed, effective, and efficient care for the management of movement-related health conditions and the promotion of health and wellness. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8202 Knowledge for Practice 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to integrate knowledge from established and evolving movement and other relevant biomedical, clinical, epidemiological and social-behavioral sciences to guide practice. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8203 Practice-Based Learning and Improvement 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to evaluate one's delivery of care, appraise and assimilate scientific evidence, and continuously improve performance based on self-evaluation. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8204 Interpersonal & Communication Skills 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to use effective interpersonal and communication skills to interact and collaborate with others. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8205 Professionalism 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to adhere to ethical and legal principles, model professional behaviors, and display a commitment to citizenship within the profession and the community. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8206 Systems-Based Practice 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to function effectively and proactively within evolving systems and environments that contribute to the health of individuals and populations. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8207 Interprofessional Collaboration 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to engage within interprofessional teams as an effective member and collaborative leader. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8208 Personal & Professional Development 2**

The learner will demonstrate a minimum of the level 2 benchmark in competency development to demonstrate the attributes required to engage in lifelong personal and professional growth. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8250 Prevention, Diagnosis and Management of Movement Problems**

Learners will apply the foundations and moderators of movement in the prevention, diagnosis, and management of movement problems across the lifespan. An emphasis is placed on patient care and the impact of social, environmental, and health systems on patient/client management. Learners will begin to take on more responsibility for identifying and improving as a movement system practitioner to improve their practice, the profession, and the society the profession serves.

Credit 12 units.

Typical periods offered: Fall

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**PHYSTHER 8260 Prevention, Diagnosis and Management of Complex Movement Problems**

Learners will apply the foundations and moderators of movement in the prevention, diagnosis, and management of movement-related conditions across the lifespan with an increasing complexity. An emphasis continues on patient care and the impact of social, environmental, and health systems on patient/client management. Learners will take responsibility for identifying and improving as a movement system practitioner to improve their practice, the profession, and the society the profession serves.

Credit 6 units.

Typical periods offered: Spring, Summer

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**PHYSTHER 8292 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.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8301 Patient and Client Care 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to provide informed, effective, and efficient care for the management of movement-related health conditions and the promotion of health and wellness. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8302 Knowledge for Practice 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to integrate knowledge from established and evolving movement and other relevant biomedical, clinical, epidemiological and social-behavioral sciences to guide practice. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8304 Interpersonal & Communication Skills 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to use effective interpersonal and communication skills to interact and collaborate with others. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8305 Professionalism 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to adhere to ethical and legal principles, model professional behaviors, and display a commitment to citizenship within the profession and the community. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8306 Systems-Based Practice 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to function effectively and proactively within evolving systems and environments that contribute to the health of individuals and populations. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8307 Interprofessional Collaboration 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to engage within interprofessional teams as an effective member and collaborative leader. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8308 Personal & Professional Development 3**

The learner will demonstrate a minimum of the level 3 benchmark in competency development to demonstrate the attributes required to engage in lifelong personal and professional growth. The learner will choose topics organized through the clinician, scholar, educator thread to improve in this domain, as needed.

Credit 0.5 units.

Typical periods offered: Fall, Spring

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**PHYSTHER 8370 Practice and Movement**

The learner will participate in self-selected activities designed to promote growth of professional skills and attributes gained during situational learning experiences. Learners will hone their clinical reasoning skills across all areas of the movement system. The learner will take action to further develop their professional identity. Learners and faculty will collaborate to optimize the learner's transition from supervised to independent practice with an emphasis on cultivating the master adaptive learner.

Credit 10 units.

Typical periods offered: Spring

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**PHYSTHER 8380 Practice, Health and Equity**

Learners will reflect on experiences across the DPT curriculum in preparation for independent practice and lifelong professional development. Learners will engage in scholarly activities emphasizing practice, health, and equity. Learners will identify and advocate for professional and societal issues affecting physical therapist practice. Learners will enhance strategies to become lifelong master adaptive learners.

Credit 1 unit.

Typical periods offered: Spring

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**PHYSTHER 8393 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.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8394 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.

Typical periods offered: Fall, Spring, Summer

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**PHYSTHER 8884 Doctoral Continuing Student Status**

Full-Time Graduate Research

Credit 0 units.

Typical periods offered: Fall, Spring, Summer

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