

Musculoskeletal Physical Therapy Certificate

at Arcadia University

Global Perspectives...Personal Attention...Real-World Integrative Learning Experiences

Faculty

Coordinator

Brian Eckenrode, PT, D.P.T., OCS,
Assistant Professor of Physical Therapy

Faculty

[Rebecca L. Craik](#), PT, Ph.D., FAPTA,
Professor and Chair of the Department
of Physical Therapy at Arcadia
University

[Philip McClure](#), PT, Ph.D., FAPTA,
Professor of Physical Therapy.
Transitional D.P.T. Coordinator

Scott Stackhouse, PT, Ph.D., Associate
Professor of Physical Therapy

Angela Tate, PT, Ph.D., MDT, Adjunct
Professor, Willow Grove Physical
Therapy

Laurita M. Hack, PT, D.P.T., M.B.A., Ph.D.,
FAPTA, Professor Emeritus,
Department of Physical Therapy,
Temple University; Vice Speaker and
member, Board of Directors, American
Physical Therapy Association

Elliot Greenberg, PT, D.P.T., OCS, CSCS,
Adjunct Professor, Children's Hospital
of Philadelphia

Steve Kareha, PT, D.P.T., ATC, OCS,
Gettysburg Orthopedic and Sports PT

Martin Kelley, PT, D.P.T., OCS, Adjunct
Professor, Good Shepherd Penn
Partners

Won Sung, PT, D.P.T., Adjunct Professor,
Good Shepherd Penn Partners

Sean Loughlin, PT, M.S.P.T., OCS, Adjunct
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Nicholas Taweel, PT, D.P.M., D.P.T.,
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Associated Faculty

David Logerstedt, PT, Ph.D., SCS,
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Graduate Certificate

Musculoskeletal Physical Therapy Certificate

About Arcadia's Musculoskeletal Physical Therapy Certificate

- Courses utilize a hybrid model of online learning and manual skills laboratory sessions.
- The 12-credit program can be completed in one to three years.
- The program is affordable and competitively priced.
- Students network and connect with nationally recognized faculty and peers.
- All Musculoskeletal Certificate courses are 2 credits.
- Students can take two courses before formal application and matriculation.

The primary goal of this certificate program is to prepare clinicians to practice musculoskeletal physical therapy using current evidence. Consistent with this goal, the program is designed to provide sufficient content, knowledge and skills to prepare students to sit for the orthopaedic clinical specialization examination offered by the American Physical Therapy Association's Board of Physical Therapy Specialties.

The curriculum consists of six 2-credit courses. Two courses deal with general concepts relevant to the management of all musculoskeletal conditions. The remaining four courses are regional, and each includes relevant anatomy, biomechanics, imaging, medical screening as well as current best evidence related to examination and intervention with emphasis on the most

Musculoskeletal Physical Therapy Certificate

prevalent conditions for each region. The regional courses include a laboratory component for development of manual skills.

Laboratory Sessions: The courses in the program utilize a hybrid model of online learning with integrated manual skills laboratory sessions. The manual skills laboratory sessions will occur between 2 to 4 weekends per year. The program is highly interactive and capitalizes on the wealth of knowledge clinicians bring with them.

Admission Requirements

Admission to the Musculoskeletal Physical Therapy Certificate

Students may take two courses before formal application and matriculation. Acceptance into a course does not guarantee admission.

The following program-specific requirements must be met:

- Proof of graduation (transcript) from a physical therapist degree program accredited by an agency approved by the U.S. Department of Education (currently CAPTE).
- Current state professional license
- Brief essay articulating and interest in the certificate.
- Basic computer skills including Internet and e-mail.
- Computer system requirements that can be found at <http://www.arcadia.edu/academic/arcadia-online-student-computer-requirements>.

Tuition and Fees

2012-13 Tuition: \$788 per credit

Musculoskeletal Physical Therapy Certificate Requirements

(12 credits)

The curriculum for the Musculoskeletal Physical Therapy Certificate program consists of six, 2-credit courses. There is no required course sequence. A minimum of 12 credits is required.

1. The following courses are required.

PT	656	Neuromuscular Tissues and Motor Control (2 credits)
PT	680	Evidence Based Practice and Clinical Reasoning (2 credits)
PT	681	Cervical-Thoracic Spine and Tempromandibular Joint (2 credits)
PT	682	Upper Extremity: Shoulder, Elbow, Wrist & Hand (2 credits)
PT	683	Lumbar Spine and Sacroiliac Joint (2 credits)
PT	684	Lower Extremity: Hip, Knee, Ankle, & Gait (2 credits)

Physical Therapy Courses

PT 656 Neuromuscular Tissues and Motor Control (2 credits)

This course reviews the basic structure and function of various tissues within the neuromusculoskeletal system. These will include muscle, nerve and various connective tissues such as tendon, ligament, cartilage and bone. Using the Physical Stress Theory as a guiding model, the effects of altered patterns of use, common pathologies, and common interventions will be discussed for each tissue. The neural control of multi-joint limb movement will be discussed using current literature on motor control, cognition and motor learning including discussion of the relevance of the research on clinical practice. Traditional and contemporary theories will be contrasted to assist in developing direct intervention strategies using skill acquisition theories. Emphasis will be placed on reading and applying current basic science literature to justify and guide the practice of physical therapy.

PT 680 Evidence Based Practice and Clinical Reasoning (2 credits)

This course will provide the physical therapist with a systematic method for critically analyzing and evaluating current research for integration into clinical practice. Clinical decision-making will be guided by relevant literature reviews to minimize practice variation, minimize health care costs, and identify potential or actual harm to patients.

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PT 681

Cervical-Thoracic Spine and Tempromandibular Joint

(2 credits)

This course provides a comprehensive background of the anatomy and biomechanics of the cervical-thoracic spine and tempromandibular joint. Content will also address musculoskeletal imaging, functional anatomy, assessment, and outcome tools relevant to this body region. Common conditions in addition to appropriate medical screening will be discussed. Emphasis will be placed on best practice and current evidence to support examination and intervention techniques of cervical-thoracic spine and tempromandibular joint.

practice and current evidence to support examination and intervention techniques of the lower extremity.

PT 682

Upper Extremity: Shoulder, Elbow, Wrist & Hand

(2 credits)

This course provides a comprehensive background of the anatomy and biomechanics of the shoulder, elbow, wrist, and hand. Content will also address musculoskeletal imaging, functional anatomy, assessment, and outcome tools relevant to this body region. Common conditions in addition to appropriate medical screening will be discussed. Emphasis will be placed on best practice and current evidence to support examination and intervention techniques of upper extremity.

PT 683

Lumbar Spine and Sacroiliac Joint

(2 credits)

This course provides a comprehensive background of the anatomy and biomechanics of the lumbar spine and sacroiliac joint. Content will also address musculoskeletal imaging, functional anatomy, assessment, and outcome tools relevant to this body region. Common conditions in addition to appropriate medical screening will be discussed. Emphasis will be placed on best practice and current evidence to support examination and intervention techniques of lumbar spine and sacroiliac joint.

PT 684

Lower Extremity: Hip, Knee, Ankle & Gait

(2 credits)

This course provides a comprehensive background of the anatomy and biomechanics of the hip, knee, ankle, and foot. Content will also address musculoskeletal imaging, functional anatomy, assessment, and outcome tools relevant to this body region. Common conditions in addition to appropriate medical screening will be discussed. Emphasis will be placed on best