2016

Physical Therapy TDPD Curriculum

Nova Southeastern University

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Physical Therapy (TDPT)

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Curriculum Requirements

The number of credits required to complete the TDPT program depends on your educational background. Applicants with a BS degree need 45 credit hours (13 classes), those with an MS degree require 27 credit hours (7 classes) and those with a PhD, EdD (or equivalent) require 20 credit hours (5 courses)*. The degree awarded is the Doctor of Physical Therapy.

The TDPT program offers three terms per year: Fall (August-December), Winter (January - May) and Summer (JMay-August). The application deadline is 30 days prior to the start of the semester.

Note: NSU M.S. degree graduates require 24 credit hours to graduate from the program.

Students Entering with PhD Degree
Students with a PhD degree will take 5 core classes from the list below.

* Choose only one of the patient/client management courses below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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| **PHT 7605: Applying Research in Evidence-based Practice** | 4       |
| This class reviews basic research methodology, including statistical analysis, so that students can critically read and evaluate research. Students are exposed to Sackett’s model of evidence-based practice (EBP). Students will learn to use the PICO format to ask clinically relevant questions. Students will locate source of evidence, evaluate the evidence, and make recommendations based on the evidence. The class explores the work of the Philadelphia Panel, the PEDRO scale, and Hooked on Evidence as methods for critiquing the literature. A course outcome is that all students contribute to the American Physical Therapy Associations’s (APTA) Hooked on Evidence database. (Offered in Fall) |

| **PHT 7615: Advanced Differential Diagnosis** | 4       |
| This course is designed to offer students the skills to make clinical decisions to screen medical diseases independently from a physician, dentist, or psychologist. It is not the intent of this course to instruct students to become medical diagnosticians, but rather to give students the tools to rule out medical problems in which physical therapy is contraindicated or that may require additional medical or psychological evaluation or treatment. Course content includes subjective and physical exam of the cardiovascular, pulmonary, gastrointestinal, urogenital, integumentary, and endocrine systems, among others. (Offered Winter) |
**PHT 7805: Contemporary Theories of Movement, Exercise, and Motor Learning**
This course addresses current theories of motor function (motor control and motor learning), exercise training (therapeutic exercise and aerobic conditioning), and movement science to enhance the practitioner’s ability to choose and apply appropriate examinations and interventions for patients with movement-related dysfunction. Students will apply contemporary theories to develop treatment strategies related to their current practice environment or patient population. (Offered Winter)

*PHT 7435: Patient/Client Management - Manual Therapy Vertebral Column I*
This course addresses orthopedic evaluation and intervention of the lumbar, thoracic, and cervical spine and in detail the evaluation, diagnosis, prognosis, intervention, and outcome assessment of orthopedic disorders. The anatomy, physiology, biomechanics and pathophysiology of all joints of the spine will be covered, emphasizing an evidenced based approach to physical therapy and medical intervention of the joints of the spine. Patient examination and intervention will include manual therapy techniques, special tests and exercises. Intervention methods will include classic manipulative therapy procedures for the spine (including traction), stability exercises, stretching/strengthening exercises, and directional preference exercises for common disorders of the vertebral column. The course will also address indications and contra-indications for manipulative therapy for neuromuscular and rheumatologic conditions. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Fall)

*PHT 7436 Patient/Client Management – Manual Therapy Vertebral Column II*
This course addresses advanced manipulative therapy of the lumbar spine and sacroiliac joint. It will review the anatomy and biomechanics of the lumbar spine and address the anatomy and biomechanics of the sacroiliac (S-I) joint. Advanced examination (with a variety of special tests) and intervention techniques for the lumbar spine and sacroiliac joint will be covered. The manipulative therapy procedures provided for the lumbar spine will be more advanced than those provided in VC I, with interventions for the lumbar spine covering examination and intervention procedures requiring higher psychomotor skills in this course. In addition, the course will cover examination and treatment of common lumbar/SI musculoskeletal disorders resistant to physical therapy intervention as well as uncommon lumbar/SI musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Recommend VCI as a pre-requisite) (Offered Winter)

*PHT 7440: Patient/Client Management – Manual Therapy Vertebral Column III*
This course will address advanced manipulative therapy of the cervical and thoracic spine as well as the rib cage. It will review the anatomy and biomechanics of the cervical and thoracic spine as well as the rib cage. It will address advanced examination (with more variety of special tests than CV I) and intervention techniques for the cervical, thoracic, and rib cage. The manipulative therapy procedures provided for the cervical spine will be more advanced than the ones instructed in VC I and will include specific techniques for the upper cervical spine. The manipulative therapy interventions for the cervical and thoracic spine will cover examination and intervention procedures requiring higher psychomotor skills than those covered in VC I. In addition, the course will include examination and treatment of common cervical/thoracic musculoskeletal disorders resistant to physical therapy intervention as well as uncommon cervical/thoracic musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Recommend VCI as a pre-requisite) (Offered Fall)

**PHT 7437: Patient/Client Management – Manual Therapy Peripheral Joint I**
This course will address orthopedic evaluation and intervention of all peripheral joints of the body (shoulder, elbow, wrist/hand, hip, knee, and ankle/foot), including evaluation, diagnosis, prognosis, intervention, and outcome assessment of orthopedic disorders. The anatomy, physiology, biomechanics and pathophysiology of all joints of the extremities will be discussed in detail. Physical therapy and medical intervention of the joints of the extremities will be addressed.
with focus on evidence-based practice. The course will cover a plan of care for patients with common neuro-musculoskeletal disorders of upper and lower extremities. Intervention methods will cover classic manipulative therapy procedures for the peripheral joints (including distraction), stability exercises, stretching exercises, and strengthening exercises. The course will also address indications and contra-indications for manipulative therapy of neuro-musculoskeletal and rheumatologic conditions. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Summer)

**PHT 7438: Patient/Client Management – Manual Therapy Peripheral Joint II**

The course addresses advanced manipulative therapy of the peripheral joints, reviewing the anatomy and biomechanics of these joints. Included is advanced examination (with more variety of special tests than PJ I) and intervention techniques for peripheral joints (including thrust techniques) that require higher psychomotor skills than those covered in PJ II. In addition, the course will cover examination and treatment of common peripheral musculoskeletal disorders resistant to physical therapy intervention as well as uncommon peripheral musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Summer)


The course addresses soft tissue mobilization techniques for the spine and peripheral joints and connective tissue biomechanics and muscle tone physiology. The course covers examination/evaluation, diagnosis/prognosis, and plan of care for patients with common soft tissue connective disorders of the spine and peripheral joints. It also addresses procedures as coadjutant to classic joint manipulative therapy. Intervention methods will cover classic soft tissue mobilization therapy procedures for soft tissue tightness, hypertonicity, and inflammation. (Offered Winter)

*Note: Students may sit for the certification review and examination course following completion of the courses PHT 7435, PHT 7436, PHT 7440, PHT 7437 and PHT 7438.*

* PHT 7825: Patient/Client Management - Neuromuscular
* PHT 7835: Patient/Client Management - Family Practice & Women's Health
* PHT 7845: Patient/Client Management - Pediatric Practice
* PHT 7855: Patient/Client Management - Geriatric Practice
* PHT 7865: Patient/Client Management - Sports Medicine
* PHT 7875: Patient/Client Management - Administration and Management

These Patient Client Management courses are offered in the Winter semester; courses in 'green' are available in odd number years; courses in 'orange' are available in even number years. PHT 7865 is offered every year in the Summer term.

**Students Entering with M.S. Degree**

Students with a M.S. degree will take 7 core classes from the list below. Those who have graduated from NSU with a M.S. degree need to take 6 core courses.

* Choose only one of the patient/client management courses below:

<table>
<thead>
<tr>
<th>course</th>
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<tbody>
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<td><strong>PHT 7405: Professional Roles of the DPT</strong></td>
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Course explores the emerging roles of the physical therapist as a doctor of physical therapy (DPT). Emphasis is on the role of the DPT in patient/community education, prevention and health promotion, and managing services through administration, consultation, and supervision. The class is organized into 2 modules: Module 1-Teaching/Learning and Health Promotion/Disease
Prevention and Module 2-Managing Services through Administration, Consultation, & Supervision. (Offered in Fall)

**PHT 7415: Radiology and Pharmacology**

This course provides an overview of current medical diagnostic tests and medical interventions so that physical therapists can (a) recognize indications and implications for medical diagnostic tests, including diagnostic imaging; (b) augment information obtained from the physical therapy examination with information provided by the physician or physician assistant; and (c) communicate effectively with other health care providers regarding medical diagnosis and treatment. Course content is organized into two subsections; diagnostic imaging and pharmacology. (Offered in Fall)

**PHT 7215: Introduction to Clinical Reasoning & Differential Diagnosis**

Students explore the conceptual basis for effective clinical reasoning and differential diagnosis using the disablement model, clinical-decision making model, elements of patient/client management, and reflective practice theories. (Offered in Fall)

**PHT 7605: Applying Research in Evidence-based Practice**

This class reviews basic research methodology, including statistical analysis, so that students can critically read and evaluate research. Students are exposed to Sackett’s model of evidence-based practice (EBP). Students will learn to use the PICO format to ask clinically relevant questions. Students will locate source of evidence, evaluate the evidence, and make recommendations based on the evidence. The class explores the work of the Philadelphia Panel, the PEDRO scale, and Hooked on Evidence as methods for critiquing the literature. A course outcome is that all students contribute to the American Physical Therapy Associations’s (APTA) Hooked on Evidence database. (Offered in Fall)

**PHT 7615: Advanced Differential Diagnosis**

This course is designed to offer students the skills to make clinical decisions to screen medical diseases independently from a physician, dentist, or psychologist. It is not the intent of this course to instruct students to become medical diagnosticians, but rather to give students the tools to rule out medical problems in which physical therapy is contraindicated or that may require additional medical or psychological evaluation or treatment. Course content includes subjective and physical exam of the cardiovascular, pulmonary, gastrointestinal, urogenital, integumentary, and endocrine systems, among others. (Offered Winter)

**PHT 7805: Contemporary Theories of Movement, Exercise, and Motor Learning**

This course addresses current theories of motor function (motor control and motor learning), exercise training (therapeutic exercise and aerobic conditioning), and movement science to enhance the practitioner’s ability to choose and apply appropriate examinations and interventions for patients with movement-related dysfunction. Students will apply contemporary theories to develop treatment strategies related to their current practice environment or patient population. (Offered Winter)

*Patient Client Management (Select one)*

**PHT 7435: Patient/Client Management - Manual Therapy Vertebral Column I**

This course addresses orthopedic evaluation and intervention of the lumbar, thoracic, and cervical spine and in detail the evaluation, diagnosis, prognosis, intervention, and outcome assessment of orthopedic disorders. The anatomy, physiology, biomechanics and pathophysiology of all joints of the spine will be covered, emphasizing an evidenced based approach to physical therapy and medical intervention of the joints of the spine. Patient examination and intervention will include manual therapy techniques, special tests and exercises. Intervention methods will include classic manipulative therapy procedures for the spine (including traction), stability exercises, stretching/strengthening exercises, and directional preference exercises for common disorders of the vertebral column. The course will also address indications and contra-indications for
manipulative therapy for neuromuscular and rheumatologic conditions. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Fall)

* PHT 7436 Patient/Client Management – Manual Therapy Vertebral Column II
This course addresses advanced manipulative therapy of the lumbar spine and sacroiliac joint. It will review the anatomy and biomechanics of the lumbar spine and address the anatomy and biomechanics of the sacroiliac (S-I) joint. Advanced examination (with a variety of special tests) and intervention techniques for the lumbar spine and sacroiliac joint will be covered. The manipulative therapy procedures provided for the lumbar spine will be more advanced than those provided in VC I, with interventions for the lumbar spine covering examination and intervention procedures requiring higher psychomotor skills in this course. In addition, the course will cover examination and treatment of common lumbar/SI musculoskeletal disorders resistant to physical therapy intervention as well as uncommon lumbar/SI musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Recommend VCI as a pre-requisite) (Offered Winter)

* PHT 7440: Patient/Client Management – Manual Therapy Vertebral Column III
This course will address advanced manipulative therapy of the cervical and thoracic spine as well as the rib cage. It will review the anatomy and biomechanics of the cervical and thoracic spine as well as the rib cage. It will address advanced examination (with more variety of special tests than CV I) and intervention techniques for the cervical, thoracic, and rib cage. The manipulative therapy procedures provided for the cervical spine will be more advanced than the ones instructed in VC I and will include specific techniques for the upper cervical spine. The manipulative therapy interventions for the cervical and thoracic spine will cover examination and intervention procedures requiring higher psychomotor skills than those covered in VC I. In addition, the course will include examination and treatment of common cervical/thoracic musculoskeletal disorders resistant to physical therapy intervention as well as uncommon cervical/thoracic musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Winter)

PHT 7437: Patient/Client Management – Manual Therapy Peripheral Joint I
This course will address orthopedic evaluation and intervention of all peripheral joints of the body (shoulder, elbow, wrist/hand, hip, knee, and ankle/foot), including evaluation, diagnosis, prognosis, intervention, and outcome assessment of orthopedic disorders. The anatomy, physiology, biomechanics and pathophysiology of all joints of the extremities will be discussed in detail. Physical therapy and medical intervention of the joints of the extremities will be addressed with focus on evidence-based practice. The course will cover a plan of care for patients with common neuro-musculoskeletal disorders of upper and lower extremities. Intervention methods will cover classic manipulative therapy procedures for the peripheral joints (including distraction), stability exercises, stretching exercises, and strengthening exercises. The course will also address indications and contra-indications for manipulative therapy of neuro-musculoskeletal and rheumatologic conditions. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Summer)

PHT 7438: Patient/Client Management – Manual Therapy Peripheral Joint II
The course addresses advanced manipulative therapy of the peripheral joints, reviewing the anatomy and biomechanics of these joints. Included is advanced examination (with more variety of special tests than PJ I) and intervention techniques for peripheral joints (including thrust techniques) that require higher psychomotor skills than those covered in PJ II. In addition, the course will cover examination and treatment of common peripheral musculoskeletal disorders resistant to physical therapy intervention as well as uncommon peripheral musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Summer)
The course addresses soft tissue mobilization techniques for the spine and peripheral joints and connective tissue biomechanics and muscle tone physiology. The course covers examination/evaluation, diagnosis/prognosis, and plan of care for patients with common soft tissue connective disorders of the spine and peripheral joints. It also addresses procedures as coadjutant to classic joint manipulative therapy. Intervention methods will cover classic soft tissue mobilization therapy procedures for soft tissue tightness, hypertonicity, and inflammation.
(Offered Winter)

Note: Students may sit for the certification review and examination course following completion of the courses PHT 7435, PHT 7436, PHT 7440, PHT 7437 and PHT 7438.

These Patient Client Management courses are offered in the Winter semester; courses in 'green' are available in odd number years; courses in 'orange' are available in even number years. PHT 7865 is offered every year in the Summer term.

Students Entering with B.S. Degree

Students entering with a B.S. degree will take 7 core courses and 6 elective courses from the lists below. Total credits to complete the TDPT program for students entering with a B.S. degree are 45 credit hours (13 courses).

Core Courses

* Choose only one of the patient/client management courses below.

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*Patient Client Management (Select one)*

**PHT 7435: Patient/Client Management - Manual Therapy Vertebral Column I**
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**PHT 7436 Patient/Client Management – Manual Therapy Vertebral Column II**
This course addresses advanced manipulative therapy of the lumbar spine and sacroiliac joint. It will review the anatomy and biomechanics of the lumbar spine and address the anatomy and biomechanics of the sacroiliac (S-I) joint. Advanced examination (with a variety of special tests) and intervention techniques for the lumbar spine and sacroiliac joint will be covered. The manipulative therapy procedures provided for the lumbar spine will be more advanced than those provided in VC I, with interventions for the lumbar spine covering examination and intervention procedures requiring higher psychomotor skills in this course. In addition, the course will cover examination and treatment of common lumbar/SI
musculoskeletal disorders resistant to physical therapy intervention as well as uncommon lumbar/SI musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory.
(Recommend VCI as a pre-requisite) (Offered Winter)

* PHT 7440: Patient/Client Management – Manual Therapy Vertebral Column III
This course will address advanced manipulative therapy of the cervical and thoracic spine as well as the rib cage. It will review the anatomy and biomechanics of the cervical and thoracic spine as well as the rib cage. It will address advanced examination (with more variety of special tests than CV I) and intervention techniques for the cervical, thoracic, and rib cage. The manipulative therapy procedures provided for the cervical spine will be more advanced than the ones instructed in VC I and will include specific techniques for the upper cervical spine. The manipulative therapy interventions for the cervical and thoracic spine will cover examination and intervention procedures requiring higher psychomotor skills than those covered in VC I. In addition, the course will include examination and treatment of common cervical/thoracic musculoskeletal disorders resistant to physical therapy intervention as well as uncommon cervical/thoracic musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Winter)

PHT 7437: Patient/Client Management – Manual Therapy Peripheral Joint I
This course will address orthopedic evaluation and intervention of all peripheral joints of the body (shoulder, elbow, wrist/hand, hip, knee, and ankle/foot), including evaluation, diagnosis, prognosis, intervention, and outcome assessment of orthopedic disorders. The anatomy, physiology, biomechanics and pathophysiology of all joints of the extremities will be discussed in detail. Physical therapy and medical intervention of the joints of the extremities will be addressed with focus on evidence-based practice. The course will cover a plan of care for patients with common neuro-musculoskeletal disorders of upper and lower extremities. Intervention methods will cover classic manipulative therapy procedures for the peripheral joints (including distraction), stability exercises, stretching exercises, and strengthening exercises. The course will also address indications and contra-indications for manipulative therapy of neuro-musculoskeletal and rheumatologic conditions. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Fall)

PHT 7438: Patient/Client Management – Manual Therapy Peripheral Joint II
The course addresses advanced manipulative therapy of the peripheral joints, reviewing the anatomy and biomechanics of these joints. Included is advanced examination (with more variety of special tests than PJ I) and intervention techniques for peripheral joints (including thrust techniques) that require higher psychomotor skills than those covered in PJ II. In addition, the course will cover examination and treatment of common peripheral musculoskeletal disorders resistant to physical therapy intervention as well as uncommon peripheral musculoskeletal syndromes that respond well to manipulative therapy. The campus session will focus on psychomotor skills, with the online portion focusing on theory. (Offered Summer)

The course addresses soft tissue mobilization techniques for the spine and peripheral joints and connective tissue biomechanics and muscle tone physiology. The course covers examination/evaluation, diagnosis/prognosis, and plan of care for patients with common soft tissue connective disorders of the spine and peripheral joints. It also addresses procedures as coadjuvant to classic joint manipulative therapy. Intervention methods will cover classic soft tissue mobilization therapy procedures for soft tissue tightness, hypertonicity, and inflammation. (Offered Winter)
Note: Students may sit for the certification review and examination course following completion of the courses PHT 7435, PHT 7436, PHT 7440, PHT 7437 and PHT 7438.

* PHT 7825: Patient/Client Management - Neuromuscular 4
* PHT 7875: Patient/Client Management - Administration and Management 4
* PHT 7835: Patient/Client Management - Family Practice & Women's Health 4
* PHT 7845: Patient/Client Management - Pediatric Practice 4
* PHT 7855: Patient/Client Management - Geriatric Practice 4
* PHT 7865: Patient/Client Management - Sports Medicine 4

These Patient Client Management courses are offered in the Winter semester; courses in 'green' are available in odd number years; courses in 'orange' are available in even number years. PHT 7865 is offered every year in the Summer term.

Elective Courses (choose 6 courses)

Student may also select from the Patient/Client Management courses from the Health Science program offerings at [http://healthsciences.nova.edu/healthsciences/index.html](http://healthsciences.nova.edu/healthsciences/index.html).

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PHT 7025: The Healthcare Educator</td>
<td>3</td>
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<tr>
<td>Patient education is an integral part of health care in every setting, from patient treatment, to health and wellness promotion, to injury and illness prevention. The focus of this course is to explore the many issues that impact patient education, from both a health care professional and management perspective. Adult education theory, patient/therapist interaction, communication barriers, strategies for success, web-based patient education, documentation, federal laws and initiatives and standards for patient education are some of the topics students will examine.</td>
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</table>

| PHT 7975: The Physical Therapist in Home Health Care | 3 |
| This course addresses common issues affecting the physical therapist in the evolving homecare environment. The student will develop an understanding of the various types of home care organizations and identify optimal methods to work effectively within each. Included in this course will be a review of regulatory guidelines, assessment principles, care planning, and identification and implementation of targeted interventions to achieve successful outcomes. Principles of interdisciplinary case management using evidence based standards of care will be reviewed for the most common homecare diagnoses. The common legal and ethical principles including patient right, abuse and neglect will also be addressed. |

| PHT 7065: Independent Study-Case Report | 3 |
| Students engage in an individualized program of study to develop and write a case report based on a case in his/her own practice using the guidelines from the American Physical Therapy Association. The process of writing a case report includes identification of an appropriate case, a review of the literature, identification of valid and reliable outcome measures, and documentation of the elements of patient/client management: examination, evaluation, diagnosis, prognosis and plan of care, and interventions. Students may also design an independent study with specific goals and objectives upon approval of the Program Director and faculty 'mentor.' |

| PHT 7925: Survey of Alternative & Complementary Therapies | 3 |
| Synthesize information from various alternative and/or complimentary therapies in order to help clients make informed choices. The course includes a survey of alternative healthcare practices in different cultures and a comparison between eastern and western practices. |