PHYSICAL THERAPY (D.P.T.)

Office: 2248 CPHS; 313-577-1432
Program Director: Kristina Reid
Director of Clinical Education: Martha Schiller
http://www.pt.cphs.wayne.edu/

Physical therapy is a dynamic health profession that develops, coordinates, and utilizes selected knowledge, skills, and techniques in planning, organizing, and directing programs for the care of individuals whose ability to function is impaired or threatened by disease or injury. This therapy includes examination, evaluation, diagnosis, prognosis, intervention, and analysis of outcomes. It provides services to patients/clients who have impairments of body function and structure, activity limitations, participation restrictions, disabilities, or changes in physical function and health status resulting from injury, disease, or other causes. Physical therapists also must be able to collaborate with a variety of professionals, address risk factors to health, be leaders and providers in the areas of prevention and promoting health, wellness and fitness, serve as educators, consultants, administrators and advocates, utilize critical inquiry skills and direct and supervise the provision of therapy services.

Some examples of diagnoses of individuals who might be seen by a physical therapist include stroke, low back pain, neck pain, ACL knee injury, Parkinson’s Disease, spinal cord injury, amputation, heart attack, athletic injury, arthritis, cerebral palsy, rotator cuff (shoulder) injury, total or partial joint replacement, spina bifida, general health and personal training, congestive heart failure, emphysema, cancer, head injury, multiple sclerosis, learning disabilities, speed and agility training, and many more.

The American Physical Therapy Association (APTA) is the organization which represents the physical therapy profession. The mission of the APTA is to further the profession’s role in the prevention, diagnosis, and treatment of movement dysfunctions and the enhancement of the physical health and functional abilities of members of the public. Students interested in the physical therapy profession should also visit the APTA (http://www.apta.org/) website.

Accreditation: The Physical Therapy Program at Wayne State University is accredited by the Commission on Accreditation in Physical Therapy Education (http://www.capteonline.org/Home.aspx) (CAPTE). Graduates who receive a Doctor of Physical Therapy degree are eligible to take the national physical therapy licensure examination, the Canadian licensure examination, and for active membership in the American Physical Therapy Association.

General Admission

Admission to this program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/) and completion of the pre-professional course component.

The Doctor of Physical Therapy (D.P.T.) is offered by this department at two levels of admission: entry level D.P.T. and transitional D.P.T. The entry level degree program is for individuals who are not now practicing physical therapists but are interested in becoming physical therapists. The transitional Doctor of Physical Therapy program is for individuals who are already licensed as a physical therapist in the United States or Canada and who wish to expand their knowledge and skills to be better prepared to work as a primary care provider and expert practitioner. These programs lead to the same degree but require different admissions criteria and the completion of different sets of core courses.

Entry-Level Program

Admission - Entry Level: A baccalaureate degree is not required for admission to the Doctor of Physical Therapy program. The requirements for consideration for admission vary, depending on whether the applicant will have an earned baccalaureate degree prior to enrollment but all applicants must meet requirements for admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/). Starting in 2015, the Graduate Record Examination will be required.

Applicants who will not have a baccalaureate degree upon enrollment in the physical therapy program must successfully complete

1. a minimum of ninety credits,
2. all University General Education Requirements,
3. all physical therapy science prerequisite courses,
4. all physical therapy non-science prerequisite courses, and
5. an upper-level concentration to be considered for admission.

Applicants who will have completed a baccalaureate degree prior to enrollment in the physical therapy program must complete all physical therapy science prerequisite courses and all physical therapy non-science prerequisite courses. Additional information on program-specific prerequisites can be found in the Physical Therapy section of the Undergraduate Bulletin.

Admission to the entry-level Doctor of Physical Therapy (D.P.T.) professional program occurs on an annual basis with Physical Therapy courses beginning in the Fall Term. There are a limited number of spaces in the Physical Therapy program and admission is competitive. Completion of the admission requirements does not guarantee admission.

Transitional Program

An admissions moratorium has been approved this program, effective Winter 2019.

Admission to the transitional program requires that the applicant be a physical therapist who has graduated from an accredited Baccalaureate or Master’s Physical Therapy Program and is currently licensed in the United States or Canada. Letters of recommendation and a personal statement are also required.

Degree Requirements - Entry-Level Program

The Doctor of Physical Therapy degree requires satisfactory completion of 121-124 credits, including all courses in the core curriculum listed below.

Note: Students may graduate with fewer than 124 credits with approval from Program Director

Consistent with Graduate School policy, the grading system for graduate students is ‘intended to reflect a higher standard of critical and creative scholarship than those applied at the undergraduate level.’ Continuing students are required to earn a minimum of a 3.00 g.p.a. to satisfy degree requirements. A graduate student who receives a ‘C’ grade in any course is expected to complete remedial work to demonstrate competency in the course requirements that may include repetition of the course the next time it is offered. Receiving more than two ‘C’ grades, or five grades below a B (3.0), in the curriculum is considered unsatisfactory progress and achievement, and will result in dismissal from the professional program. Students may also be dismissed from the program for unsatisfactory clinical performance or for unsatisfactory professional behavior.
All course work must be completed in accordance with the academic procedures of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations/) governing graduate scholarship and degrees and the College of Pharmacy and Health Sciences (http://bulletins.wayne.edu/graduate/college-pharmacy-health-sciences/academic-regulations/). In addition, the criteria for academic performance given in the Physical Therapy Student Handbook should be followed. The Physical Therapy Student Handbook, provided by this program, also contains policy statements that may pertain to admission, candidacy, and degree requirements which students should consult.

The core curriculum is subject to change without prior notice in response to the changing health care environment and accreditation standards.

### Core Curriculum (Entry-Level Program)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PT 5010</td>
<td>Clinical Applications I</td>
<td>1</td>
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<tr>
<td>PT 5020</td>
<td>Foundations of Physical Therapy</td>
<td>2</td>
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<tr>
<td>PT 5030</td>
<td>Basic Patient Care in Physical Therapy</td>
<td>2</td>
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<tr>
<td>PT 5070</td>
<td>Clinical Applications II</td>
<td>2</td>
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<tr>
<td>PT 5100</td>
<td>Therapeutic Exercise I</td>
<td>3</td>
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<tr>
<td>PT 5120</td>
<td>Human Growth and Development</td>
<td>2</td>
</tr>
<tr>
<td>PT 5300</td>
<td>Surface Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>PT 5320</td>
<td>Basic Examination and Evaluation Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PT 5400</td>
<td>Neurosciences for Health Care Professionals</td>
<td>3</td>
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<tr>
<td>PT 5410</td>
<td>Clinical Medicine I</td>
<td>3</td>
</tr>
<tr>
<td>PT 5430</td>
<td>Clinical Medicine II</td>
<td>1</td>
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<tr>
<td>PT 5500</td>
<td>Kinesiology and Biomechanics</td>
<td>3</td>
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<tr>
<td>PT 5505</td>
<td>Clinical Applications of Human Anatomy</td>
<td>3</td>
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<tr>
<td>PT 5510</td>
<td>Clinical Applications of Human Anatomy: Laboratory</td>
<td>1</td>
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<tr>
<td>PT 5650</td>
<td>Pathophysiology for Health Sciences</td>
<td>3</td>
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<td>PT 5660</td>
<td>Pathokinesiology</td>
<td>2</td>
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<tr>
<td>PT 5670</td>
<td>Special Test in Physical Therapy</td>
<td>1</td>
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<tr>
<td>PT 5800</td>
<td>Clinical Education I</td>
<td>3</td>
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<tr>
<td>PT 5820</td>
<td>Clinical Education II</td>
<td>3</td>
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<tr>
<td>PT 6100</td>
<td>Therapeutic Exercise II</td>
<td>3</td>
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<tr>
<td>PT 6200</td>
<td>Diversity, Ethics and Legal Issues in Health Care</td>
<td>3</td>
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<tr>
<td>PT 6300</td>
<td>Research I: Critical Thinking</td>
<td>2</td>
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<tr>
<td>PT 6310</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
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<tr>
<td>PT 6400</td>
<td>Teaching and Learning in Health Care</td>
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<tr>
<td>PT 6500</td>
<td>Pharmacology</td>
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<td>PT 6700</td>
<td>Motor Learning and Motor Control</td>
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<tr>
<td>PT 6750</td>
<td>Seminar: Complementary and Special Topics in Health Care</td>
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<tr>
<td>PT 7000</td>
<td>Therapeutic Modalities</td>
<td>3</td>
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<tr>
<td>PT 7100</td>
<td>Management of Patients with Orthopedic Conditions I</td>
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<tr>
<td>PT 7120</td>
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<td>PT 7200</td>
<td>Management of Patients with Neurological Disorders I</td>
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<td>Management of Patients with Neurological Disorders II</td>
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<td>PT 7300</td>
<td>Orthotics and Prosthetics</td>
<td>3</td>
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<tr>
<td>PT 7320</td>
<td>Rehabilitation Procedures</td>
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<tr>
<td>PT 7400</td>
<td>Cardiopulmonary Rehabilitation</td>
<td>4</td>
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</tbody>
</table>

| PT 7600 | Physical Therapy for Medical and Surgical Conditions | 3 |
| PT 7700 | Research II: Design & Methodology                 | 2 |
| PT 7720 | Research III: Data Analysis and Interpretation    | 2 |
| PT 7740 | Research IV: Research Practicum                   | 1 |
| PT 8000 | Therapeutic Management of Pediatric Populations   | 3 |
| PT 8110 | Geriatrics                                        | 2 |
| PT 8200 | Management in Physical Therapy Practice           | 2 |
| PT 8300 | Differential Diagnosis for Health Sciences        | 3 |
| PT 8400 | Diagnostic Procedures for Health Sciences         | 2 |
| PT 8500 | Clinical Decision Making                          | 3 |
| PT 8600 | Health Promotion and Wellness                     | 2 |
| PT 8800 | Clinical Education II                             | 4 |
| PT 8820 | Clinical Education IV                             | 8       |

**Total Credits**: 124

### Degree Requirements - Transitional Program

An admissions moratorium has been approved this program, effective Winter 2019.

Students in this program are required to complete eight core courses if the student already possesses a Master of Physical Therapy degree. For individuals not possessing a Master of Physical Therapy degree, the applicant’s educational and professional qualifications will be reviewed and an individual plan of work will be designed to provide sufficient preparation for the transitional D.P.T. curriculum.

The core curriculum is subject to change without prior notice in response to the changing health care and education environment.

### Core Curriculum (Transitional Program)

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PT 6300</td>
<td>Research I: Critical Thinking</td>
<td>2</td>
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<tr>
<td>PT 6400</td>
<td>Teaching and Learning in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PT 6700</td>
<td>Motor Learning and Motor Control</td>
<td>3</td>
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<tr>
<td>PT 7990</td>
<td>Directed Study</td>
<td>3</td>
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<tr>
<td>PT 8170</td>
<td>Professional Development and Reflective Practice</td>
<td>3</td>
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<tr>
<td>PT 8300</td>
<td>Differential Diagnosis for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PT 8400</td>
<td>Diagnostic Procedures for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PT 8850</td>
<td>Clinical Practicum</td>
<td>3</td>
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</tbody>
</table>

**Total Credits**: 23

### Health and Liability Insurance

Clinical Education is provided throughout the professional program along with didactic courses. The final twenty-eight weeks of the program are spent in two assignments in selected clinical facilities throughout the metropolitan Detroit area, Michigan and other parts of the country. Patient care involves inherent risk of exposure to potential diseases, particularly blood borne pathogens, and the risk of possible mishaps in patient care. Therefore, all students are required to maintain health insurance coverage and this must be in effect prior to and during the professional program. Liability insurance is rolled into course fees associated with clinical education. The student is responsible for the
**Cost of health insurance and all other costs (such as travel, meals, living expenses) associated with the clinical education portion of the program.**

**PT 5010 Clinical Applications I Cr. 1**
First part-time integrated clinical experience for physical therapy students. Orientation to clinical education and PT practice to develop professional behaviors, observation skills, fundamentals of written and verbal communication and basic examination and intervention skills in a clinical setting. Offered Winter.
Course Material Fees: $20

**PT 5020 Foundations of Physical Therapy Cr. 2**
Satisfies General Education Requirement: Writing Intensive Competency Sociological and historical background of the PT profession. Professional behavior; patient care interaction and medical terminology. Basic physical therapy care procedures, documentation, patient education, care in medical emergencies. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $90

**PT 5030 Basic Patient Care in Physical Therapy Cr. 2**
Introduction to the basic skills necessary for patient care and provide a foundation to the theory and practice of basic patient care procedures for the Physical Therapist. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in a Doctor of Physical Therapy degree; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $25

**PT 5070 Clinical Applications II Cr. 2**
Second part-time integrated clinical experience for physical therapy students. This clinical education course includes and orientation to basic and intermediate examination and intervention skills, professional behavior, communication, documentation, inter-professional collaboration and team work. Offered Fall.
Prerequisite: PT 5010 (may be taken concurrently)
Course Material Fees: $30

**PT 5100 Therapeutic Exercise I Cr. 3**
Foundational course designed to focus on the principles and techniques of therapeutic exercise for patients with pathological conditions to the neuromusculoskeletal system. Students will develop and administer treatment plans for specific patient problems and progress treatment plans based on patient condition and response to treatment. Offered Fall.
Prerequisite: PT 5400 and PT 5505
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $10

**PT 5120 Human Growth and Development Cr. 2**
Theories and basic principles in prenatal, physical, sensorimotor, perceptual, cognitive, social, emotional and language growth and development. Implications for physical therapy evaluation and treatment of children with developmental disabilities. Offered Spring/Summer.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $10

**PT 5300 Surface Anatomy Cr. 2**
Laboratory-based course teaching skills for soft tissue palpation, identification of surface anatomy landmarks, soft tissue mobilization and massage. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $220

**PT 5320 Basic Examination and Evaluation Procedures Cr. 3**
Lecture and laboratory experience focusing on principles and procedures of foundational medical screening, physical therapy differentiation, and clinical reasoning and decision-making skills; basic principles and techniques for posture, integumentary, neurological, range of motion, and strength examination and evaluation, documenting progress and outcome, and the continued development of patient care skills. Offered Winter.
Prerequisite: PT 5030 and PT 5300 and PT 5505
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $10

**PT 5400 Neurosciences for Health Care Professionals Cr. 3**
Study of the human central nervous system; emphasis on sensory and motor systems and structures that contribute to normal movement. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $50
Equivalent: OT 5400

**PT 5410 Clinical Medicine I Cr. 3**
Designed to provide specific information needed by the physical therapist treating patients with a variety of diseases. Pathology, etiology, clinical signs and symptoms, prognosis, and treatment of a variety of illnesses and conditions relevant to physical therapy treatment are covered. The role of other health care specialists including physician, occupational therapist, speech pathologist, nurses and psychologists is explored. Offered Winter.
Restriction(s): Enrollment is limited to students with a major in Physical Therapy.

**PT 5430 Clinical Medicine II Cr. 1**
Disease processes, and medical and surgical interventions. Role of physical therapy as part of comprehensive multi-disciplinary health care team. Offered Spring/Summer.
Prerequisite: PT 5410
Restriction(s): Enrollment is limited to students with a major in Physical Therapy.

**PT 5500 Kinesiology and Biomechanics Cr. 3**
Normal movement and biomechanics applied to the human body. Offered Winter.
Prerequisite: PT 5505 and PT 5510 and PT 5400
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $20

**PT 5505 Clinical Applications of Human Anatomy Cr. 3**
Knowledge of basic human anatomy for students in health science professional programs; foundation for further study in clinical sciences. Offered Fall.
Restriction(s): Enrollment is limited to students with a major, minor, or concentration in Occupational Therapy or Physical Therapy.
Equivalent: OT 5505

**PT 5510 Clinical Applications of Human Anatomy: Laboratory Cr. 1**
Examination of prosections, dissection of human cadavers; didactic instruction. Satisfies General Education Requirement: Writing Intensive Competency Concentration in Occupational Therapy or Physical Therapy.
Restriction(s): Enrollment is limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $220
Equivalent: OT 5510

**Physical Therapy (D.P.T.)** 3
PT 5650 Pathophysiology for Health Sciences Cr. 3
Fundamental knowledge of the nature of disease for the health sciences student; physiologic and morphologic changes accompanying disease processes; mechanisms of repair and recovery. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Equivalent: OT 5650, RT 5650

PT 5660 Pathokinesiology Cr. 2
A continuation of PT 5500 (Kinesiology and Biomechanics), this course is designed to teach: foundational principles regarding biomaterials, key biomechanical and kinesiological principles of human movement as related to anatomy and physiology, and application of this information to clinical situations that involve alterations in movement. Analyses of pathological motion and pathokinesiology of selected joints will be included. Offered Spring/Summer.
Prerequisite: PT 5500
Corequisite: PT 5670
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $10

PT 5670 Special Test in Physical Therapy Cr. 1
A continuation of PT 5300 (Basic Evaluation), this course is designed to teach Special Test as part of a physical therapy examination. Student will relate the special tests to appropriate pathologies, perform and interpret the results of special tests and discuss hypotheses in light of evidence-based knowledge. Offered Spring/Summer.
Prerequisite: PT 5300
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

PT 5800 Clinical Education I Cr. 3
First of a four-course clinical education series. Six weeks of full-time supervised clinical experience for physical therapy students. Offered Yearly.
Course Material Fees: $20

PT 5820 Clinical Education II Cr. 3
Second of a four-course clinical education series. Six-week of full-time supervised clinical experience for physical therapy students. Offered Spring/Summer.
Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program.
Course Material Fees: $45

PT 5990 Directed Study Cr. 1-4
The remediation directed study has been designed to help students remediate for academic or clinical competency standards in the Physical Therapy program. The student will identify, based on performance areas of weakness on course content or clinical skills. Once identified a faculty mentor will assist the student in developing a plan to develop mastery of the content or clinical skills needed to be deemed competent in deficient areas and continue in the PT program. The remediation plan will then be implemented by the student. Offered Every Term.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 8 Credits

PT 6100 Therapeutic Exercise II Cr. 3
Advanced application of principles and techniques of therapeutic exercise; evaluation and modification of therapeutic exercise plan of care, based on physical and functional responses and characteristics of patients or clients. Offered Fall.
Prerequisite: PT 5100
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $15

PT 6200 Diversity, Ethics and Legal Issues in Health Care Cr. 3
Impact of diversity and legal practice standards, including federal, state, and institutional regulations related to patient care and fiscal management of health care practice. Issues in cultural awareness, cultural sensitivity, cultural competence, ethics, and ethical decision making in personal, professional, and societal contexts. Self-analysis of personal attitudes, values, and beliefs. Offered Winter.
Prerequisite: PT 5020
Restriction(s): Enrollment is limited to students with a major in Physical Therapy.

PT 6300 Research I: Critical Thinking Cr. 2
Introduction to evidence-based practice and clinical reasoning and decision making. Identification, location, critique and analysis of evidence. Offered Fall, Winter.
Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program.

PT 6310 Advanced Exercise Physiology Cr. 3
Metabolic, neuromuscular, cardiovascular, and respiratory adjustments to acute and chronic exercise in health and disease, including body composition and weight control, nutritional considerations, and the effects of different environments on exercise performance. Offered Fall.
Equivalent: PSL 6010

PT 6400 Teaching and Learning in Health Care Cr. 2-3
Exploration of theoretical and practical issues pertinent to physical therapy profession: educational methods, adult learning theories, instructional design methodologies, evaluation, instructional management. Additional project required if elected for three credits. Offered Winter.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

PT 6500 Pharmacology Cr. 2
Effects of drug distribution, absorption and excretion as pertaining to physical therapy. Major drug categories, OTC, and nutritional supplements, pertinent to acute and chronic responses to physical therapy; indications, mechanisms, effects. Offered Fall.
Prerequisite: PT 5430 and PT 5650
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

PT 6700 Motor Learning and Motor Control Cr. 2-3
Current theories and concepts in processes of motor skill acquisition and performance, from a behavioral objective. Additional evidence-based case reports required if elected for three credits. Offered Winter.
Prerequisite: PT 5400 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

PT 6750 Seminar: Complementary and Special Topics in Health Care Cr. 2
Physical, psychological, and nutritional approaches relevant to practice of physical therapy. Seminar course. Offered Winter.
Prerequisite: PT 5430 and PT 6300
Restriction(s): Enrollment is limited to students with a major in Physical Therapy.

PT 7000 Therapeutic Modalities Cr. 3
Lecture and laboratory experiences focusing on principles and procedures for using physical agents and spinal traction. Tissue inflammation and repair, pain, superficial and deep heat, cryotherapy, electrotherapy, and spinal traction included. Integumentary evaluation and wound management. Offered Fall.
Prerequisite: PT 5430 and PT 5660
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $30
PT 7100 Management of Patients with Orthopedic Conditions I Cr. 3
Lecture and laboratory experience focusing on knowledge, principles, clinical reasoning and decision making skills, examination and evaluation procedures, and interventions required for managing patients with impairments, functional limitations, and disabilities due to musculoskeletal pathologies of the extremity joints across the life span, and the continued development of patient care skills. Offered Fall.
Prerequisite: PT 5300 with a minimum grade of C and PT 5320 with a minimum grade of C
Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.
Course Material Fees: $25

PT 7120 Management of Patients with Orthopedic Conditions II Cr. 3
Lecture and laboratory experience focusing on knowledge, principles, clinical reasoning and decision making skills, examination and evaluation procedures, and interventions required for managing patients with impairments, functional limitations, and disabilities due to musculoskeletal pathologies of the spinal column and extremity joints across the life span, and the continued development of patient care skills. Offered Winter.
Prerequisite: PT 7100
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $25

PT 7200 Management of Patients with Neurological Disorders I Cr. 3
Basic principles and techniques of assessing problems associated with neurological disorders including postural tone, sensation, superficial and developmental reflexes, quality of movement, perceptual-motor skills and functional mobility. Offered Yearly.
Prerequisite: PT 5400 and PT 6700
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $114

PT 7220 Management of Patients with Neurological Disorders II Cr. 3
Prerequisite: PT 7200
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $35

PT 7300 Orthotics and Prosthetics Cr. 3
Principles and techniques of prosthetic and orthotic function, component selection and application, use and training. Upper and lower extremity devices, and spinal devices, wheelchairs, ambulatory aids, assistive devices and environmental control systems. Advanced gait and movement biomechanics and evaluation. Offered Fall.
Prerequisite: PT 5500 and PT 5660 and PT 7200
Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.
Course Material Fees: $25

PT 7320 Rehabilitation Procedures Cr. 3
Theoretical issues and treatment of patients with spinal cord injury, traumatic brain injury, problems of aging, and chronic neuromuscular conditions. Offered Fall.
Prerequisite: PT 7200 and PT 7220
Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.
Course Material Fees: $25

PT 7400 Cardiopulmonary Rehabilitation Cr. 4
Physiology and pathophysiology of disorders of the cardiac and pulmonary systems. Evaluation and treatment of cardiopulmonary disorders. Offered Winter.
Prerequisite: PT 5100 and PT 5430 and PT 6310
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $20

PT 7600 Physical Therapy for Medical and Surgical Conditions Cr. 3
Management of patients with complex problems including medical and surgical conditions seen in acute care hospital settings. Offered Winter.
Prerequisite: PT 5650 and PT 5430
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $25

PT 7700 Research II: Design & Methodology Cr. 2
Introduction to basic principles of research theory, design, and methodology for physical therapy. Biostatistics and analysis of scientific literature relevant to physical therapy. Offered Fall.
Prerequisite: PT 6300
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 7720 Research III: Data Analysis and Interpretation Cr. 2
Basic principles of research design as it relates to the theory and practice of physical therapy Students will analyze relevant scientific literature, design, develop and implement a research project, and learn basic computer skills in utilizing a statistical analysis program. Offered Fall.
Prerequisite: PT 7700 with a minimum grade of C
Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.
Course Material Fees: $20

PT 7740 Research IV: Research Practicum Cr. 1
Independent study: critical analysis or review of new or unique topics in health care; or physical therapy role, approach, methodology, techniques or scientific rational for professional practice. Oral and written presentation required. Elective. Offered Yearly.
Prerequisite: PT 5100
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 7990 Directed Study Cr. 1-4
Independent study: critical analysis or review of new or unique topics in health care; or physical therapy role, approach, methodology, techniques or scientific rational for professional practice. Oral and written presentation required. Elective. Offered Yearly.
Prerequisite: PT 5100
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 8000 Therapeutic Management of Pediatric Populations Cr. 3
Principles and application of the elements of physical therapy practice in the management of pediatric populations. Offered Fall.
Prerequisite: PT 5120 with a minimum grade of C and PT 6700 with a minimum grade of C and PT 7220 with a minimum grade of C
Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.
Course Material Fees: $15
PT 8110 Geriatrics Cr. 2
Theories and basic principles of physical, sensorimotor, perceptual, cognitive, social, emotional, and language changes during the aging process. Emphasis is placed on how the aging process impacts functional independence and contributions from all body systems. Implications for physical therapy evaluation and treatment for the aging population are examined. Offered Winter.

Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.

Course Material Fees: $50

PT 8170 Professional Development and Reflective Practice Cr. 3
Exploration of novice vs. expert practice in physical therapy; role of reflection in developing professional skills and behaviors. Current professional and legal issues in provision of physical therapy services. Web-based course. Offered Every Term.

Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program; enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 8200 Management in Physical Therapy Practice Cr. 2
Overview of health care systems; financing and administration of physical therapy services within various health care systems. Offered Fall.

Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program; enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 8300 Differential Diagnosis for Health Sciences Cr. 3
Principles and procedures designed to facilitate the integration of previously-introduced examination and evaluation skills, in order to perform differential diagnosis for primary care practice. Offered Every Term.

Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program; enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 8400 Diagnostic Procedures for Health Sciences Cr. 2-3
Medical diagnostic procedures and application of results as related to provision of physical therapy health services, including diagnostic imaging and laboratory tests. Additional project required if elected for three credits. Offered Every Term.

Prerequisite: PT 5650 with a minimum grade of C and PT 5430 with a minimum grade of C

Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

PT 8500 Clinical Decision Making Cr. 3
Integration of didactic and clinical knowledge in development of diagnostic prognostic skills in physical therapy; focus on refining competencies in peer referral across health care disciplines; development of strategies for clinical decision making. Offered Yearly.

Prerequisite: PT 6100 with a minimum grade of C and PT 7120 with a minimum grade of C and PT 7220 with a minimum grade of C and PT 7400 with a minimum grade of C

Restriction(s): Enrollment limited to students in the Doctor of Physical Therapy program; enrollment is limited to Graduate level students.

Course Material Fees: $95

PT 8600 Health Promotion and Wellness Cr. 2
Dimensions of health promotion and wellness, including implementation strategies for different populations. Analysis of physical, emotional and cost benefits. Identification of needs and development of practice plan for groups and individuals. Offered Winter.

Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.

PT 8800 Clinical Education III Cr. 4
Third in a four-course clinical education series. Twelve weeks of full-time supervised terminal clinical experience for physical therapy students with emphasis on progression to entry-level clinician. Offered Yearly.

Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.

Course Material Fees: $70

Repeatable for 8 Credits

PT 8820 Clinical Education IV Cr. 8
Fourth in a four-course clinical education series. Final full-time supervised terminal clinical experience for physical therapy students. Twelve week full time experience with emphasis on progression to entry-level clinician. Offered Yearly.

Restriction(s): Enrollment is limited to students with a major in Physical Therapy; enrollment is limited to Graduate level students.

Course Material Fees: $30

PT 8850 Clinical Practicum Cr. 3
Monitored clinical practice in a focused area of physical therapy practice. Focus may include: administration and management, cardiopulmonary, neurology, orthopedics, integumentary care, pediatrics, and teaching. Offered Every Term.

Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students in the Pharmacy and Health Sciences.

ADAMO, DIANE: Ph.D., University of Michigan; M.S., B.S., Wayne State University; Associate Professor

DICKSON, JENNIFER: D.P.T., M.P.T., B.S., Oakland University; Clinical Assistant Professor

FRITZ, NORA E.: Ph.D., D.P.T., The Ohio State University; B.S., Miami University; Assistant Professor

HANNUM, NANETTE: D.P.T., Grand Valley State University; B.S., Belhaven College; Assistant Professor (Clinical)

MAHER, SARA F.: D.Sc.P.T., Oakland University; M.P.T., B.S., Wayne State University; B.A., Western Michigan University; Associate Professor (Clinical)

MALEK, MOH: Ph.D., University of Nebraska-Lincoln; M.S., California State University Fullerton; B.A., The Claremont Colleges, Pitzer College; Associate Professor

MOUL, ANDREW: D.P.T., Wayne State University; Assistant Professor (Clinical)

PARDON, VICKY: D.H.S., University of Indianapolis; M.H.S., University of Indianapolis; B.Sc., University of Ottawa; Assistant Professor

PEPIN, MARIE-EVE: D.P.T., MGH Institute of Health Sciences; M.S., Oakland University; B.S., McGill University; Clinical Assistant Professor

POCIASK, FREDRICK: Ph.D., Wayne State University; M.S., B.S., Oakland University; Associate Professor

REID, KRISTINA: D.P.T., Wayne State University, M.S., P.T., Oakland University; Assistant Professor

ROCHE, JOSEPH A.: Ph.D., University of Maryland, Baltimore; B.P.T., Christian Medical College; Assistant Professor

SCHILLER, MARTHA: D.P.T., University of St. Augustine; M.S.A., Central Michigan University; B.S. University of Western Ontario; Clinical Assistant Professor