

University of Montana  
School of Physical Therapy and Rehabilitation Science  
Program Curriculum and Course Descriptions

First Year Students  
Fall Classes Block I

- **P T 503 - PT and Health Care System**  
Credits: 4. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. An introduction to physical therapy and its relationship to the health care system. Topics include introduction to PT as a profession, medical terminology, medical records, teaching and learning, ethics, laws and professional issues in physical therapy.
- **P T 510 - Applied Clinical Anatomy**  
Credits: 5. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Anatomy of the neuromusculoskeletal system and body cavities in relation to movement and function with clinical correlates. Course lab fee.
- **P T 523 - Clinical Medicine I: Intro to Med**  
Credits: 1. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Introduction to medical screening within the patient/client management model
- **P T 529 - Biomechanics**  
Credits: 4. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Principles of biomechanics and application to physical therapy.

Fall Classes Block II

- **P T 503 - PT and Health Care System** (Continued from Block 1)
- **P T 516 - Movement System Exam & Eval**  
Credits: 5. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program or permission of instructor. Principles of musculoskeletal examination and evaluation including posture, neurologic screen, palpation, measurement of ROM and muscle performance, assessment of muscle length, and joint play.
- **P T 526 - Foundational Skills & Interventions**  
Credits: 3. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Basic skills of transfers, bed mobility, gait assistive device use, and soft tissue mobilization.

### Spring Classes Block I

- **P T 519 - Musculoskeletal Management I**  
Credits: 4. Level: Graduate. Offered spring. Prereq., PT 510, 516, 529. Coreq., PT 530. Principles of musculoskeletal examination, evaluation, and intervention. The focus is application of anatomic and biomechanical principles when examining posture and movement, identification of abnormal movement patterns, and analysis of underlying neuromuscular impairments.
- **P T 520 - Development Through Life Span**  
Credits: 2. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Presentation of changes in adults they progress through the lifespan. Includes the functional changes associated with aging, assessing and managing fall risk, performance and interpretation of functional outcome measures.
- **P T 530 - Clinically Applied Ex Physiology**  
Credits: 4. Level: Graduate. Offered spring. Enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Principles and applications of the physiological adaptations to acute and chronic exercise stresses, exercise assessment/testing, prescription and progression of the exercise program, and the adaptations of exercise interventions in the clinical environment. Basic principles and application of Proprioceptive Neuromuscular Facilitation (PNF).
- **P T 582 - Clinical Experience**  
Credits: 1. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. A mix of classroom and clinical experiences to introduce students to the expectations of professional practice. CR/NCR grading.

### Spring Semester Block II

- **P T 524 - Clin Med II Intro to Med**  
Credits: 1. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program or permission of instructor. Introduction to pharmacology, medical management of selected orthopedic and hematological conditions.
- **P T 527 - Physical & Electrophysiologic Agents**  
Credits: 3. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Physiology, indications, contraindications, and application of electrotherapy and physical agents. Theory and application of electrodiagnostic and electrotherapeutic procedures.
- **P T 530 - Clinically Applied Exercise Physiology (Continued from Block 1)**

- **P T 536 - Neurosciences**

Credits: 5. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Anatomy of the head and neck, and neuroanatomy of the human nervous system with emphasis on evaluation of central nervous system lesions and pathological conditions, clinical applications to physical therapy.

- **P T 560 - Clinical Reasoning I**

Credits: 1. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Introduction to the clinical reasoning process in physical therapy, faculty research and scholarship options, and laboratory orientation.

Summer

- **P T 587 - Clinical Internship I**

Credits: 6. Level: Graduate. Offered summer. Prereq., successful completion of all first-year DPT courses and PT 582. Seven weeks of full-time clinical experience with emphasis on developing patient evaluation and treatment skills. Only CR/NCR grading.

Second Year Students

Fall Classes Block I

- **P T 525 - Clin Med III**

Credits: 2. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or permission of instructor. Pathophysiology, medical and pharmacological management of hepatic, oncological, immunological diseases and organ transplantation.

- **P T 576 - Clinical Reasoning II**

Credits: 2. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. This course will build on the foundations established in Clinical Reasoning I. Issues related to clinical and research ethics will be discussed. The principles of evidence based practice (EBP), including the application of evidence and the creation of evidence, will be part of the discussion. Limitations of EBP and its role in the changing health care environment, critical appraisal of the literature, statistical knowledge, and weighing evidence for clinical decision making will be presented. A writing assignment, application of debate/persuasive argument techniques, and collaborative group exercise will be a part of this course.

- **P T 563 - Cardiopulmonary PT**

Credits: 3. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Cardiovascular and pulmonary pathology, pharmacology, and differential diagnosis. Physical therapy assessment and interventions for patients with cardiovascular and/or pulmonary disease.

- **P T 565 - PT for Children**  
Credits: 2. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Normal development throughout childhood. Physical therapy examination, evaluation and intervention of children with neuromotor and musculoskeletal dysfunction including physical therapy for children in school systems.

Fall Classes Block II

- **P T 576 - Clinical Reasoning II (Con't from Block I)**
- **P T 567 - Neurorehabilitation I**  
Credits: 3. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Neurologic physical therapy assessment and intervention of adults. Principles of neuroplasticity, motor control, motor learning and application to physical therapy neurorehabilitation. Includes wheelchair seating and mobility assessment and prescription.
- **P T 569 - Musculoskeletal Mgt II**  
Credits: 5. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Principles of musculoskeletal examination, evaluation, and intervention for the hip, knee, ankle, foot, and lumbar spine.

Spring Classes Block I

- **P T 572 - Practice & Administration**  
Credits: 2. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Practice management and operations explored with emphasis on strategic planning, human resource management, regulatory compliance/risk management, quality improvement and coding payment.
- **P T 578 - PT for Select Populations**  
Credits: 6. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Physical therapy assessment and interventions are addressed in the areas of occupational health, pregnancy and pelvic floor dysfunction, wound management and prosthetic management. This course also addresses the needs and concerns of special populations including recreational and sporting opportunities.
- **P T 583 Integrated Clinical Experience I**  
Credits: 2. Level Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. An integrated, part-time clinical experience with emphasis on patient evaluation, treatment and professional development. Only CR/NCR grading.

## Spring Semester Block II

- **P T 568 - Neurorehab II**  
Credits: 3. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Neurologic physical therapy assessment and intervention of adults. Principles of neuroplasticity, motor control, motor learning and application to physical therapy neurorehabilitation. Includes assessment and treatment of vestibular system and conditions.
- **P T 573 - Musculoskeletal Mgt III**  
Credits: 4. Level: Graduate. Offered spring. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Principles of musculoskeletal examination, evaluation, and intervention for the shoulder, elbow, wrist, hand, temporomandibular joint (TMJ), thoracic and cervical spine.
- **PT 583 Integrated Clinical Experience I - Con't from block I**

## Summer

- **P T 589 - Clinical Internship III**  
Credits: 6. Level: Graduate. Offered summer. Prereq., successful completion of all prior clinical experiences, and previous DPT coursework. Eight weeks of full-time clinical experience with emphasis on learning about administrative issues, problem solving, time management, and communication skills. Continuation of development of patient treatment and evaluation skills. Only CR/NCR grading.

## Third Year Students

### Fall Classes Block I

- **P T 626 - Clin Med IV**  
Credits: 3. Level: Graduate. Offered autumn. Prereqs., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Course will focus on the role of the physical therapist in a Direct Access environment. Pathology, differential screening, pharmacotherapeutics, evaluation and management of integumentary, gastrointestinal, endocrine/metabolic and urogenital disease. Course will address abdominal and dermatological screening.
- **P T 627 - Prevention & Wellness Educ**  
Credits: 2. Level: Graduate. Offered autumn. Prereqs., enrolled in entry-level DPT program and completion of all previous DPT courses or consent of instructor. Nutrition, health promotion, patient and support network education, exercise/fitness, disease and injury prevention, life span emphasis.
- **P T 676 - Clinical Reasoning III**  
Credits: 3. Level: Graduate. Offered autumn. Prereqs., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor.

Course addresses elements of clinical mastery, professional development, career options, ethics and patient advocacy. Each student develops and presents a case report and provides peer review and feedback.

- **P T 679 - Trends & Scholarly Act.**

Credits: 1 TO 6. Level: Graduate. (R-6) Offered autumn and spring. Prereqs., Enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Students are required to complete at least 6 credits during their 2nd and 3rd years. Seminar sections that focus on advanced clinical topics in physical therapy and/or engagement in research with an individual faculty advisor. Traditional or CR/NCR grading as determined by instructor.

- **PT 584 Integrated Clinical Experience II**

Credits: 2. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. An integrated, part-time clinical experience with emphasis on patient evaluation, treatment and professional development. CR/NCR grading.

Fall Classes Block II

- **P T 570 - Psych of Illness & Disability**

Credits: 2. Level: Graduate. Offered autumn. Prereq., enrolled in entry-level DPT program and passed all previous courses or consent of instructor. Psychosocial response to illness and disability to include patient motivation and patient/professional interaction for persons with disability throughout the lifespan.

- **P T 676 - Clinical Reasoning III - Con't from block I**

- **P T 679 - Trends & Scholarly Act.**

Credits: 1 TO 6. Level: Graduate. (R-6) Offered autumn and spring. Prereqs., Enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Students are required to complete at least 6 credits during their 2nd and 3rd years. Seminar sections that focus on advanced clinical topics in physical therapy and/or engagement in research with an individual faculty advisor. Traditional or CR/NCR grading as determined by instructor.

- **PT 584 - Integrated Clinical Experience Neuro – Con't from block I**

Spring Classes Block I & II

- **PT 680 - Clinical Internship IV**

Credits: 11. Level: Graduate. Prereq., enrolled in entry-level DPT program and passed all previous DPT courses or consent of instructor. Final summative experience is a 15 week clinical internship. Includes writing and presentation of case study or special project. CR/NCR grading.