

PHYSICAL THERAPY

College of Health and Human Services

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Master of Physical Therapy (code PT__MT01)

The Master of Physical Therapy program is designed to provide entry-level professional preparation in physical therapy consistent with national trends. The proposed curriculum consists of 60 units of didactic course work followed by 12 units of postgraduate clinical internship for licensure to practice physical therapy in the State of California. The professional course work is preceded by appropriate prerequisite courses. This program will provide an opportunity for the student with a baccalaureate degree in physical therapy or in a related field of study, or who currently holds a license to practice physical therapy, to pursue a professional masters degree in physical therapy (not an advanced clinical speciality degree). Graduates will be prepared to assume responsible clinical administrative and consultative roles in a broad spectrum of physical therapy practice settings; and be responsive to changing expectations, the expanding body of knowledge, and the physical therapy practice environment.

Requirements

The Master of Physical Therapy program requires completion of all prerequisite and professional course work described in the following:

Program Prerequisites

Natural Sciences: CHEM 111A, 111B, PHYS 100A, 100B

Biological Sciences: BIOL 208, 211A, 211B, 341, 441, HHS 401, 402, 403, 460, 471

Biostatistics: BIOL 260 (or equivalent)

Behavioral Sciences: PSY 100, HHS 374

Note: Computer literacy is expected.

MPT Core Requirements

Core: PT 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 522, 523, 524, 604, 605, 606, 607, 620, 622, 696, 697 OR 698

Electives: PT 610-619

Postgraduate Internship Certification (code PT__CT01)

Requirements

P T 525 (must be completed to be eligible to take the state examination for licensure)

Admission to the Master of Physical Therapy Program

The physical therapy masters program is open to all college graduates with a Bachelor of Science degree in Physical Therapy, or other disciplines, who have met prerequisite requirements and demonstrate academic promise and the ability to perform at a satisfactory level during their graduate studies.

To be considered for acceptance into the graduate program, the applicant must:

1. Complete all prerequisite courses with a minimum of "C" (students admitted to graduate status must maintain a minimum 3.0 overall grade point average in all upper division prerequisite coursework);

2. Hold, or be eligible to hold, an acceptable baccalaureate degree from an institution accredited by a regional accrediting association or have completed equivalent academic preparation as determined by an appropriate campus authority;
3. Have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted;
4. Submit results of the General Aptitude Section of the Graduate Record Examination (quantitative, verbal, and analytical), taken within the past 5 years;
5. Provide academic and personal references as required;
6. Provide documentation of personal experience in a variety of physical therapy settings; and
7. Be recommended by the physical therapy faculty.
8. All candidates whose preparatory education was principally in a language other than English must demonstrate competency in English. Refer to the CSULB Bulletin for requirements for completing the Test of English as a Foreign Language (TOEFL).

The master's degree program is a 60-unit, four semester plus one summer session full-time course of study. Graduates who have not met licensure eligibility requirements or who do not hold a valid physical therapy license (have not completed the BS degree in physical therapy) will be required to take a post-graduate internship (12 units). The course of study is most appropriate for graduates with degrees in related fields but does not exclude the person holding a baccalaureate degree in physical therapy. For graduates holding the BS degree in physical therapy, courses may be petitioned for the purpose of waving them providing a similar or like course has been completed which meets licensure standards. The emphases in the curriculum is to prepare graduates who desire to practice in a variety of clinical settings, e.g., private practice, acute care, rehabilitation, home health and extended care.

Advancement to Candidacy Requirements

1. Classified graduate student status.
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR).
3. A minimum 3.0 grade-point average in all program graduate work as well as a minimum overall 3.0 in all graduate work attempted.
4. Be recommended by a faculty sponsor.
5. Enrollment in regular session.
6. Satisfactory completion of at least one semester of the program.

Requirements for Admittance to Clinical Practice

1. Complete all requirements for the master's at the time of application to clinical practice.
2. Successfully complete either (a) a research thesis or project (PT 698) or (b) directed studies (PT 697) under the guidance of a faculty advisor.
3. If choice b (above) is selected (PT 697) the student must also successfully complete a program comprehensive examination.

Courses (PT)

501. Musculoskeletal and Biomechanical Principles (3)

Prerequisites: HHS 401, 402, 403. Advanced study of joint mechanics and pathomechanics with application to therapeutic procedures, posture and movement of the limbs, temporomandibular joint, neck and trunk. Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

502. Normal and Pathological Gait (2)

Prerequisites: PT 501. Kinetics and kinematics of normal and pathological gait with application to persons with gait disability. Emphasis on gait analysis and therapeutic procedures. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours)

503. Management of Individuals with Musculoskeletal Disorders I (3)

Prerequisite: PT 501. The elements of patient/client management of musculoskeletal disorders provided by physical therapists including examination (history, systems review, tests and measures), evaluation, diagnosis, prognosis including anticipated goals, expected outcomes and criteria for discharge, and reexamination. Also includes primary prevention/risk factor reduction strategies for specific diagnostic groups. May include use of prosected materials and selected lectures by clinicians. Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

504. Management of Individuals with Musculoskeletal Disorders II (4)

Prerequisites: PT 501, 503. The interventions for individuals with disorders of the musculoskeletal system including exercise prescription, strengthening regimens, effects of disuse, life sequence, wellness and prevention, theories of pain and pain management and selected preferred practice patterns provided by physical therapists. Letter grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours.)

505. Management of Human Growth and Development (2)

Prerequisites: HHS 401, 460. Investigation and analysis of human development from birth to senescence with emphasis on concepts of motor, skeletal and neurological development processes necessary to prepare for evaluation and treatment intervention in musculoskeletal and neurological disabilities. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

506. Exercise Physiology for Physical Therapy (2)

Prerequisites: BIOL 341, 441; HHS 401, 460, 471. Study of control systems challenged by exercise and altered by chronic exercise that will be critical for patient management. Introduction to exercise measurement and clinical exercise related tools including basic metabolism, analysis of systems involved, exercise test design for different patient subjects, and the pharmacology of exercise. Study of pathology will always be preceded by study of the healthy individual. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

507. Management of Individuals with Neuromuscular Disorders (4)

Prerequisites: HHS 460, PT 502. The elements of patient/client management of neuromuscular disorders provided by physical therapists-examination (history, systems review, tests and measures), evaluation, diagnosis, prognosis, and intervention (with anticipated goals) including reexamination, outcomes, and criteria for discharge. Also includes primary prevention/risk factor reduction for specific diagnostic groups, the use of prosected materials and selected lectures by medical and physical therapy clinicians. Letter grade only (A-F). (Lecture/discussion 3 hours, laboratory 3 hours.)

508. Management of the Pediatric Population (2)

Prerequisites: PT 505, 507, admission to the physical therapy program. Management of the pediatric physical therapy patient with neuromusculoskeletal disorders. Includes the examination (history, systems review, tests and measures), evaluation, diagnosis, and prognosis to determine the extent of limitations. Also includes the pathophysiology and selection of appropriate intervention approaches and clinical decision making. May include lectures from medical and physical therapy practitioners. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

509. Management of the Cardiopulmonary System (3)

Prerequisites: BIOL 341, 441; PT 505, 506. The elements of patient/client management of cardiopulmonary disorders provided by physical therapists—examination (history, systems review, tests and measures), evaluation, diagnosis, prognosis, and intervention (with anticipated goals) including reexamination, outcomes, and criteria for discharge. Also includes primary prevention/risk factor reduction for specific diagnostic groups, circulatory disorders and selected lectures by medical and physical therapy clinicians. Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

510. Patient Management and Functional Training (2)

Prerequisites: HHS 401, 402 and admittance to MPT program. Patient/client management with emphasis on assistive and adaptive devices and physical agents, self care and home management (including activities of daily living and instrumental activities of daily living) and wound management. May include lectures from medical and physical therapy practitioners on selected topics. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

511. Management of the Geriatric Population (3)

Prerequisites: PT 503, 504, 505, 507. The elements of patient/client management of the geriatric population provided by physical therapists—examination (history, systems review, tests and measures), evaluation, diagnosis, prognosis, and intervention (with anticipated goals) including reexamination, outcomes, and criteria for discharge. Also includes primary prevention/risk reduction strategies for specific diagnostic groups, and selected lectures by medical and physical therapy clinicians. Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

512. Clinical Electrophysiology I (3)

Prerequisites: BIOL 341; HHS 402, 460. The investigation of the physiological and neurological basis for the selection of electromyographic assessment tools and for the selection of electrotherapeutic modalities for the management of neuromusculoskeletal disorders. Also includes specific interventions used in the management of the patient/client with neuromuscular disorders. Letter grade only (A-F). (Lecture/discussion 2 hours, laboratory 3 hours.)

513. Clinical Electrophysiology II (2)

Prerequisites: PT 512. Physiological considerations in the use of nerve stimulation studies and electromyography with the patient/client with neuromuscular disorders emphasizing the rationale for the selection of electrical stimulation techniques for physical therapy intervention as well as functional use of electrical stimulation systems. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

514. Prevention in Physical Therapy (1)

Prerequisites: PT 501, 506. Corequisites: PT 504, 507, 509. Application of the principles of primary, secondary and tertiary prevention to physical therapy. Letter grade only (A-F). (Laboratory 3 hours.)

522. Clinical Practice I (1)

Prerequisites: PT 501, 510; Corequisites: PT 502, 503, 506. Initial directed clinical practice in a variety of health care delivery systems emphasizing the development of patient interaction skills, evidence-based practice, and critical thinking. This course uses structured learning units and collaborative learning within the clinical setting. Credit/No Credit grading only. (Clinical practice 40 hours.)

523. Clinical Practice II (1)

Prerequisites: Completion of the first year of professional program. Supervised clinical practice in a variety of health care delivery systems emphasizing musculoskeletal and neuromuscular conditions. Credit/No Credit grading only. (Clinical practice 6 weeks)

524. Clinical Practice III (1)

Prerequisites: Completion of PT 523. Supervised clinical practice in a variety of health care delivery systems emphasizing single and multiple systems impairments but including the management of cardiopulmonary, prosthetic, and spinal/extremity mobilization conditions. Credit/No credit grading only. (Clinical practice 40 hours.)

525. Clinical Internship (1-12)

Prerequisites: Completion of all requirements for the MPT degree. Twenty-four weeks of supervised full-time clinical practice in a variety of health care delivery systems. Six weeks of clinical practice will be completed during the summer following the first year of the academic program and the culminating clinical experience will follow the completion of the second year of the academic program. Satisfactory completion of the internship is required for licensure to practice in the state of California. Must be repeated for a total of 12 units. Credit/No credit grading only. (Clinical practice 24 weeks.)

597. Independent Studies (1-3)

Prerequisites: Consent of instructor, and for human dissection, one general introductory anatomy course HHS 401, and HHS 402. Independent studies in any area of physical therapy. Human dissection is available as a special study. May be repeated to a maximum of 6 units. Letter grade only (A-F). (Independent studies.)

604. Health Care Issues I (2)

Prerequisite: Admittance to MPT program. Investigation of the health care delivery system including the regulatory, political, ethical, legal and promotional aspects of health care. Letter grade only (A-F). (Lecture/discussion 2 hours.)

605. Health Care Issues II (2)

Prerequisite: Admittance to MPT program. Investigation and discussion of the process of planned direction, organization, management, and economics of physical therapy and physical therapy delivery. Includes theories of disease prevention and health promotion. Letter grade only (A-F). (Lecture/discussion 2 hours.)

606. Professional Practice Issues (3)

Prerequisite: Admittance to MPT program. Professional practice issues such as interpersonal interactions, giving and receiving feedback, and the role of values and culture as determinants of behavior. Evidence-based practice, the critical analysis of professional literature and the objective summarization of professional literature using clear, concise, scientific writing. The course includes an introduction to the Guide to Physical Therapy Practice and its use in clinical problem solving. Also includes learning and teaching principles, and patient/family education with focus on health behavior change. Letter grade only (A-F). (Lecture/discussion 3 hours.)

607. Seminar in Clinical Decision Making II (2)

Prerequisites: PT 507, 509. Continuation of the investigation and synthesis of the data base for the management of the patient/client with disorders of the cardiopulmonary and neuromuscular systems. Includes examination of the psychosocial aspects of disability, community resources to meet the needs of the patient and family, social/cultural aspects, patient compliance and advocacy, and learning theories and principles. Letter grade only (A-F). (Seminar 2 hours.)

610. Advanced Study in Biomechanics and Kinesiology (2)

Prerequisites: PT 501, 502; MPT major or physical therapist. Advanced study in the biomechanical evaluation of pathological posture and movement with emphasis on gait. Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours.)

611. Advances in Orthopaedic Physical Therapy (2)

Prerequisites: PT 503, 504; MPT major or physical therapist. Exploration of advanced clinical orthopedic management strategies. Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours.)

612. Advanced Study in Clinical Electroneuromyography (2)

Prerequisites: PT 512, 513; MPT major or physical therapist. Advanced electroneuromyography assessment and electrical stimulation technology with an emphasis on objective documentation and improvement of neurological status, muscle performance, walking ability and functional capacity. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

613. Advances in the Management of the Geriatric Population (2)

Prerequisites: PT 505, 509, 511; MPT major or physical therapist. Exploration of the clinical management strategies and intervention in aging. Letter grade only (A-F). (Discussion 1 hour, laboratory 3 hours.)

614. Advances in the Management of the Pediatric Population (2)

Prerequisites: PT 505, concurrent enrollment in PT 507; MPT major or physical therapist. Exploration of advances in the management of the pediatric physical therapy patient with emphasis on various pathologies. Letter grade only (A-F). (Lecture 1 hour, laboratory 3 hours.)

615. Advances in the Management of the Neurological Patient (2)

Prerequisites: PT 506, 507, 508; MPT major or physical therapist. Exploration of special considerations in the patient with neurological impairment. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

616. Advances in the Management of the Cardiopulmonary Patient (2)

Prerequisites: PT 509; MPT major or physical therapist. Exploration in the special considerations in the management of the patient with cardiopulmonary and circulatory disability. Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

617. Management and Development of Independent Practice (2)

Prerequisites: Admission to the professional program, PT 604, PT 605; MPT major or physical therapist. Exploration of the management and business strategies in independent practice. Letter grade only (A-F). (Lecture/discussion 2 hours.)

618. Advanced Clinical Anatomy (2)

Prerequisites: PT 501, 502, 503, 504; MPT major or physical therapist. Exploration of the advanced application of clinical anatomy. Dissection of specific areas of clinical relevance is an option. Letter grade only (A-F). (Lecture 1 hour, lab 3 hours.)

619. Contemporary Issues in Physical Therapy (2)

Prerequisites: PT 604; MPT major or physical therapist. Exploration of contemporary and emerging trends in physical therapy practice. Letter grade only (A-F). (Lecture/discussion 2 hours.)

620. Management of Patients with Orthotic and Prosthetic Needs (2)

Prerequisites: PT 502, 503. The prescription, application, and fabrication of devices and equipment (orthotic, prosthetic, supportive splinting, and taping). Letter grade only (A-F). (Lecture/discussion 1 hour, laboratory 3 hours.)

622. Clinical Pathophysiology (3) F, S, SS

Prerequisites: PT 504, 505, 507, 509, 510, 513, 606, 696. Corequisites: PT 508, 620. Pathophysiology of connective tissue in musculoskeletal, neuromuscular, cardiopulmonary and integumentary disorders as a basis for physical therapy evaluation, diagnosis, goal setting and conservative as well as pre and post-operative intervention in patients with multiple systemic disorders. (Letter grade only (A-F). (Lecture/discussion 3 hours.)

696. Research Methods (2)

Prerequisite: Admittance to MPT program. Scientific inquiry with emphasis on information searching. Epidemiology, research design (qualitative and quantitative), measurement theory, and applied statistics. Also includes critical inquiry and clinical decision-making guidelines, research ethics, and the development of a proposal on the validation of physical therapy practice. Letter grade only (A-F). (Lecture/discussion 2 hours.)

697. Directed Research Studies (1-4)

Prerequisites: PT 606, 696, advancement to candidacy and consent of instructor. Research in an area of specialization in physical therapy under the direction of a faculty sponsor. Letter grade only (A-F). Must be completed for a total of 4 units.

698. Research Thesis/Project (1-4)

Prerequisites: PT 606, 696, advancement to candidacy and consent of instructor. Planning, preparation, and completion of thesis or project in physical therapy. Letter grade only (A-F). Must be completed for a total of 4 units.