

# PHYSICAL THERAPY (PT-GE)

## PT-GE 2004 Histology General Path (3 Credits)

Overview of microanatomical structure from the perspective of cells, tissues, and systems. The four tissue types are studied including epithelial, connective, nervous, and muscular tissues. Basic concepts of cell and tissue injury and disease are presented, including examination of acute and chronic inflammation and immune and autoimmune responses.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2008 Manual Techniques I (2 Credits)

This course enables the student to apply manual therapy (including mobilization and manipulation) which consists of a broad group of passive intervention in which physical therapists use their hands to modulate pain, increase joint range of motion, reduce soft tissue inflammation, induce relaxation, improve contractile and noncontractile tissue extensibility, and improve pulmonary function.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2009 Manual Techniques II (3 Credits)

This course is the second in a series of two manual techniques courses that will enable the student to have an in-depth understand & "hands on experience" of manual techniques relevant to current clinical practice. The course focuses on joint-related manual techniques for evaluation & intervention in the following contests: to modulate pain, to increase joint range or motion, reduce soft tissue inflammation, induce relaxation, to improve contractile & non-contractile tissue extensibility, & to improve muscle activation. The course also provides the students with an introduction to the assessment of motion, including goniometry. A problem solving approach based on the International Classification of Function framework will be utilized throughout this course.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2016 Research in Phys Ther I (3 Credits)

This course provides knowledge and understanding of the research process for historical, philosophical, descriptive, and experimental research. The major steps in the research process include: selection and formulation of a research problem, formulation of the research hypothesis, selection of the appropriate research design to collect data, knowledge of sampling and statistical analyses, development of the master's thesis outline, and submission of the thesis outline for IRB approval.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2018 Research Phys Therapy II (3 Credits)

New Course Description: This course enables students to begin the research process as a result of approval of the UCAIHS for the study. It supports students during the gathering of data for the research thesis, in analyzing all of the data upon completion of collection, and in assuring the reporting of the findings of the study through the writing of the final thesis. Upon completion of the master's thesis, students are expected to submit the results of the study to an appropriate physical therapy-related journal.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2019 Physical Therapist as Admin, Etc (3 Credits)

Management of human and material resources and services to provide quality, efficient and cost effective physical therapy services based upon patient's or client's goals; practice team building and group dynamic skills; interact with patients, clients, family members, other health care providers and community based organizations for the purpose of coordinating activities to facilitate efficient and effective patient or client care; delegate physical therapy related services to appropriate human resources; supervise and manage support personnel to whom tasks have been delegated; practice advocacy skills for patient and through participation in the legislative processes; and participate in management budgeting, billing and reimbursement activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2020 The Physical Ther/Eductr Consultant Comm (2 Credits)

The course will enable the student to: provide patient related instruction; educate others using a variety of teaching methods that are commensurate with the needs and unique characteristics of the learner; provide consultative services using the physical therapist's skills to individuals, businesses, schools, government agencies, or other organizations; expressively and receptively communicate with patients, clients, family caregivers, practitioners, consumers, payers and policy makers; and take responsibility for communication or discussion of diagnoses or clinical impressions with other practitioners.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2024 Applied Anatomy/Physlgy Cardiopulomanry System (3 Credits)

In-depth knowledge of human anatomy and the principles of regulation of function of the cardiac, circulatory and pulmonary systems. Anatomical models and specimens will complement didactic classroom activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2026 Clinical SCI/Path of The Cardio System (4 Credits)

Analysis of the etiology, pathology, and clinical sciences of cardiac, circulatory and pulmonary diseases, disorders, and disabilities. Imaging techniques and clinical/ laboratory assessment techniques and pharmacological interventions will be presented.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2030 CPR/First Aid/Advanced Emergency Techniques (2 Credits)

This course will provide the student with all of the skills necessary to take appropriate action in an emergency in any practice setting.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

## PT-GE 2116 Analysis/Synth of Human Motion I (3 Credits)

Integration of facts and principles derived from the fields of anatomy, physiology, and biomechanics with implications for normal, physical activity, conditioning, and therapeutic exercise; research approach.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

## PT-GE 2118 Analysis/Synth of Human Motion II (3 Credits)

Analysis of abnormal motion and the procedures employed in its modification.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2120 Gross Human Anatomy (4 Credits)**

Overview of human anatomy of the muscular, skeletal, nervous, and circulatory systems. Anatomical models and specimens will complement didactic classroom activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2187 Meas&Eval Human Mot I (3 Credits)**

The theoretical basis, principles, and techniques of kinesiological electromyography and motion analysis of normal and abnormal human motion.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2188 Meas&Eval Human Mot II (3 Credits)**

The theoretical basis, principles, and techniques of dynamometry; the integration of kinesiological electromyography, motion analysis, and dynamometry.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2209 Lifespan Development (3 Credits)**

In-depth knowledge of human development throughout the life cycle. The student will be given the foundation upon which typical and atypical behavior may be compared.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2215 Biophysical Agents I (Physical Agents/Mechanical Modalities) (2 Credits)**

Enables students to apply physical agents and aseptic techniques, including deep thermal modalities (e.g. ultrasound), a thermal modalities (e.g. pulsed ultrasound, pulsed electromagnetic fields), superficial thermotherapy (e.g. heat, paraffin baths, hot packs, fluidotherapy), cryotherapy modalities (cold packs, ice massage), hydrotherapy (e.g. whirlpools, tanks, contrast baths), and phototherapies (e.g. ultraviolet) in order to increase connective tissue extensibilities; modulate pain, reduce or eliminate soft tissue inflammation and swelling caused by musculoskeletal injuries or circulatory dysfunction; increase the healing rate of open wounds and soft tissue; remodel scar tissue; or treat skin conditions. Basic aseptic techniques including bacterial, fungal, and viral infections.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2218 Biophysical Agents II (Electrotherapeutic Modalities) (3 Credits)**

Application of electrotherapeutic modalities, including alternating, direct, and pulsed current (e.g. high voltage galvanic stimulation, interferential current), neuromuscular electrical stimulation (NMES), functional electrical stimulation (FES) for improving posture for movement, transcutaneous electrical nerve stimulation (TENS), iontophoresis, electrical muscle stimulation, and biofeedback in order to: modulate or decrease pain; reduce or eliminate soft tissue inflammation caused by musculoskeletal, neuromuscular, peripheral vascular, or integumentary injury, disease, developmental delay, or surgery; maintain strength after injury or surgery; decrease unwanted muscular activity; assist muscle contraction in gait or other functional training; or increase the rate of healing of open wounds.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2219 Assistive Technology (3 Credits)**

Enables the student to: understand the physical properties and biomechanical principles of devices and equipment; to prescribe, apply, and fabricate as appropriate adaptive, orthotic, protective, supportive, and prosthetic devices and equipment for ADL and IADL; to analyze their use during ADL and IADL; and to evaluate the limitations and indications/contraindications of devices and equipment. The course enables the student to practice fabricating adaptive, supportive, and protective devices.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2220 Kinesiology/Biome/Ergon (5 Credits)**

Study of normal and abnormal human motion including gait and posture. Macrophysiological and biomechanical principles will be defined and applied to static and dynamic movement. Once developed, basic concepts are applied to specific joints, the trunk and spine.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2225 Exercise Physiology (4 Credits)**

Physiological and pathophysiological principles for understanding the response of the human body to exercise. The musculoskeletal, pulmonary, cardiovascular and metabolic responses to exercise and their implications in physical therapy intervention will be explored. The effects of aging, nutrition and environmental stress on the body's performance will be discussed. Human energy expenditures, body composition and effects of training are presented in lectures and are coordinated with laboratory demonstration and experiences

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2227 Principles of Exercise (3 Credits)**

Analysis of the underlying principles of the following types of therapeutic exercise: stretching, strengthening; active assistive; active; resistive, using manual resistance pulleys, weights, hydraulics, elastics, robotics, and mechanical or electromechanical devices: neuromuscular relation, inhibition and facilitation; neuromuscular reeducation; motor training or retraining; developmental; activities; breathing exercises, including ventilatory muscle training; aerobics endurance activities, using cycles, treadmills, steppers, pools, manual resistance, pulleys, weights, hydraulics, elastics, robotics, and mechanical or electromechanical devices; aquatic exercises; and conditioning and reconditioning.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2229 Fitness Theor/Practice (2 Credits)**

Theoretical and practical aspects of physical fitness. Students to evaluate, design, and implement fitness and conditioning programs. Health, safety, injury prevention will be discussed. The importance of an active lifestyle, as a health behavior, and the role of physical activity in preventing cardiovascular disease and promoting health and longevity will be discussed.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2230 Applied Anatomy/Physiology of The Musculoskeletal (3 Credits)**

In depth-knowledge of human anatomy and the principles of regulation of function of the muscular and skeletal systems. Anatomical models and specimens complement didactic classroom activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2231 Clin SCI/Path/Pharm/Imag of The M-S System (4 Credits)**

Analysis of the etiology, pathology and clinical sciences of muscular and skeletal diseases, disorders, and disabilities. Imaging techniques and clinical/laboratory assessment techniques and pharmacological interventions will be presented.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2232 Appl Antm/Phys/Neuro Sys (3 Credits)**

In-depth knowledge of human anatomy and the principles of regulation of function of the central, peripheral, and autonomic nervous systems and their relationship to the muscular system. Anatomical models and specimens will complement didactic classroom activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2233 Appld Antmy/Phys/Ob/Gyn, Intgmntry/Endoc System (3 Credits)**

In-depth knowledge of human anatomy and the principles of regulation of function of the reproduction, renal, integumentary and endocrine systems. Anatomical models and specimens will complement didactic classroom activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2242 Clin Sci/Path/Pharm/Imag of The N-M System (4 Credits)**

Analysis of the etiology, pathology and clinical sciences of neuromuscular diseases, disorders, and disabilities. Imaging techniques and clinical/laboratory assessment techniques and pharmacological interventions will be presented.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2243 Clin Sci/Path/Pharm/Imag Ob/Gyn, Intgm/Endoc Sys (4 Credits)**

Analysis of the etiology, pathology and clinical sciences of reproductive, renal, integumentary and endocrine diseases, disorders, and disabilities. Imaging techniques and clinical/laboratory assessment techniques and pharmacological interventions will be presented.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2250 Phys Ther Exam of The C-P System (4 Credits)**

The course will enable the student to: independently examine and reexamine a patient or client with a cardiopulmonary problem by obtaining a pertinent history from the patient or client and from other relevant sources, by performing relevant systems review, and by selecting appropriate age related tests and measure; synthesize examination data to complete the physical therapy evaluation; engage in the diagnostic process in an efficient and cost-effective manner consistent with the policies and procedures of the practice setting; engage in the diagnostic process to establish differential diagnosis for patients across the life span; and determine patient or client prognoses based on evaluation of results of examinations and medical and psychosocial information.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2251 Phys Ther Exam of The M-S System (4 Credits)**

The course will enable the student to: independently examine and reexamine a patient or client with a musculoskeletal problem by obtaining a pertinent history from the patient or client and from other relevant sources, by performing relevant systems review, and by selecting appropriate age related tests and measure; synthesize examination data to complete the physical therapy evaluation; engage in the diagnostic process in an efficient and cost-effective manner consistent with the policies and procedures of the practice setting; engage in the diagnostic process to establish differential diagnoses for patients across the life span; and determine patient or client prognoses based on evaluation of results of examinations and medical and psychosocial information.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2252 Phys Ther Exam of The Neuromuscular System (5 Credits)**

Student to independently examine and reexamine a patient or client with a neuromuscular problem by obtaining a pertinent history from the patient or client and from other relevant sources, by performing relevant systems review, and by selecting appropriate age related tests and measure; synthesize examination data to complete the physical therapy evaluation; engage in the diagnostic process in an efficient and cost-effective manner consistent with the policies and procedures of the practice setting; engage in the diagnostic process to establish differential diagnoses for patients across the life span; and determine patient or client prognoses based on evaluation of results of examinations and medical and psychosocial information.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2253 Pt Exam Gen-Uri, Inte, End Gastro & Immune Sys (3 Credits)**

The course will enable the student to: independently examine and reexamine a patient or client with ob/gyn, integumentary or endocrine problems by obtaining a pertinent history from the patient or client and from other relevant sources, by performing relevant systems review, and by selecting appropriate age related tests and measure; synthesize examinations and to complete the physical therapy evaluation; engage in the diagnostic process in an efficient and cost-effective manner consistent with the policies and procedures of the practice setting; engage in the diagnostic process to establish differential diagnoses for patients across the life span; and determine patient or client prognoses based on evaluation of results of examinations and medical and psychosocial information.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2260 Phys Ther Inter/Prev Prg Well Prog Cv Resp System (4 Credits)**

Student will establish a safe and effective physical therapy plan of care; establish goals and functional outcomes that specify expected time duration; define achievable patient or client outcomes within available resources; monitor and adjust the plan of care in response to patient or client status; provide direct physical therapy intervention to achieve patient or client outcomes based on the examination and on the impairment, functional limitations, and disability. Promote optimal health by providing information on wellness, impairment, disease, disability and health risks related to age, gender, culture, and lifestyle; provide primary, secondary or tertiary care to patients in collaboration with other practitioners in settings supportive of comprehensive and complex services based on patient's or client's goals and expected functional outcomes and on knowledge of one's own and other's capabilities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2261 Pt Intervent Prevention Prog/Well Prog Ms System (4 Credits)**

Students will establish a safe and effective physical therapy plan of care; establish goals and functional outcomes that specify expected time duration; define achievable patient or client outcomes with available resources; monitor and adjust the plan of care in response to patient or client status; provide direct physical therapy intervention of achieve patient or client outcomes based on the examination and on the impairment, functional limitations, and disability; promote optimal health by providing information on wellness, impairment, disease, disability and health risks related to age, gender, culture and lifestyle; provide primary, secondary or tertiary care to patients in collaboration with other practitioners in settings supportive of comprehensive and complex services based on patient's or client's goals and expected functional outcomes and on knowledge of one's own and other's capabilities,

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2262 Phys Ther Inter/Prev Prg Well Prog N-M System (6 Credits)**

The course will enable the student to establish a safe and effective physical therapy plan of care; establish goals and functional outcomes that specify expected time duration; define achievable patient or client outcomes within available resources; monitor and adjust the plan of care in response to patient or client status; provide direct physical therapy intervention to achieve patient or client outcomes based on the examination and on the impairment, functional limitations, and disability; promote optimal health by providing information on wellness, provide primary, secondary or tertiary care to patients in collaboration with other practitioners in settings supportive of comprehensive and complex services based on patients or client's goals and expected functional outcomes and on knowledge of one's own and other's capabilities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2263 Phy Thr Intr/Prv Prg Wel Prg/Ob/Gyn Int/Endoc/Sys (4 Credits)**

Student to establish a safe and effective physical therapy plan of care; establish goals and functional outcomes that specify expected time duration; define achievable patient or client outcomes within available resources; monitor and adjust the plan of care in response to patient or client status; provide direct physical intervention to achieve patient or client outcomes based on the examination and on the impairment, functional limitations, and disability; promote optimal health by providing information on wellness, impairment, disease, disability and health risks related to age, gender, culture and lifestyle; provide primary, secondary or tertiary care to p[patients in collaboration with other practitioners in settings supportive of comprehensive and complex services based on patient's or client's goals and expected functional outcomes and on knowledge of one's own and other's capabilities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2281 Professional Behavior (2 Credits)**

History of the profession, the professional association, professionalism, individual and cultural differences, health professional/patient relationships, medical and professional ethics, and medical legal aspects of care. The student demonstrates professional behaviors in all interactions with patients, clients, families, caregivers, and other health care providers. Enables the student to practice in a safe setting and manner to minimize risk to the patient, client, therapist, and others; be aware of the practices and ramifications of sexual harassment; identify and assess the health needs of individuals, groups, and communities including screening, prevention, and wellness programs appropriate to physical therapy; display generously as evidenced by the use of time and effort to meet patient or client needs; and demonstrate social responsibility, citizenship, and advocacy including participation in community and human service organizations and activities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2286 Critical Inquiry/Clin Decision Making I (2 Credits)**

This course will enable the student to utilize critical inquiry by applying the principles of scientific method to read and interpret professional literature. The student will apply the principles of clinical decision-making in the delivery of patient or client care to include: identification of problem, collection and interpretation of data, formulation of hypothesis, collection of data, interpretation of findings, acceptance or rejection of hypothesis, determination of clinical decision, deliberate action, and reevaluation of actions. The final outcome of this course will be a Review of Literature.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2287 Crit Inquiry/Clin Dcsn Making II (Case Study) (2 Credits)**

Design and implementation of decision-making guidelines in order to utilize outcome effectiveness and efficiently studies to establish, implement, and evaluate the effectiveness of patient or client protocols. The student will use a case report as a vehicle for identifying clinical problems, assessing measuring devices, and collection and interpreting data to aid in clinical decision-making.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No



**PT-GE 2288 Crit Inquiry/Clin Decsn Making III (2 Credits)**

Students will integrate knowledge in physical therapy with statistics and research design to critically analyze current physical therapy literature. Each student will be able to develop a research plan with a given topic.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2295 Bus Pract/Rembrsmnt/Mrkt Tech Mngmt/Care Del Sys (4 Credits)**

Implementation of marketing plans and related public relations activities; major reimbursement guidelines; how to reflect patient or client care activities in all billing; apply time management principles to patient or client treatment scheduling; and understand and exhibit responsibility for practicing within the guidelines of third party payers.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2300 Ind Study (1-6 Credits)**

It should be noted that independent study requires a minimum of 45 hours of work per point. Independent study cannot be applied to the established professional education sequence in teaching curricula. Each departmental program has established its own maximum credit allowance for independent study. This information may be obtained from a student's department. Prior to registering for independent study, each student should obtain an Independent Study Approval Form from the adviser.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** Yes

**PT-GE 2450 Clinical Affiliation I (2 Credits)**

This experience will enable the student to: participate in clinical education to enhance knowledge, values, and skills as a practitioner; and integrate and apply course work in the clinical setting.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 2451 Clinical Affiliation II (3 Credits)**

This experience will enable the student to: participate in clinical education to enhance knowledge, values, and skills as a practitioner; and integrate and apply course work in the clinical setting.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 2452 Clinical Affiliation III (6 Credits)**

This experience will enable the student to: participate in clinical education to enhance knowledge values, and skills as a practitioner; and integrate and apply all course work in the clinical setting.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 2455 Clin Observ - 1 Day/Week (1 Credit)**

This experience will enable the student to participate in clinical education through observation of master clinicians.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2456 Clin Observ - 1 Day/Week (1 Credit)**

This experience will enable the student to participate in clinical education through observation of master clinicians.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2457 Clin Observ - 1 Day/Week (1 Credit)**

This experience will enable the student to participate in clinical education through observation of master clinicians.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2458 Clin Observ - 1 Day/Week (1 Credit)**

This experience will enable the student to participate in clinical education through observation of master clinicians.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2601 Advanced Pt Examination and Intervention Ms I (3 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2602 Advanced Pt Examination and Intervention Ms II (3 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2603 Advanced Pt Examination and Intervention Ms III (3 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2604 Orthopedic Physical Therapy (2 Credits)**

This course enables the student to integrate knowledge in physical therapy with motor learning, human growth and development, nutrition, pharmacology, medical diagnostic techniques, orthopedic surgery and performance as a disabled athlete and their impact on the musculoskeletal system.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2605 Advanced Evidence-Based Orthopedic Pt (2 Credits)**

This course enables the student to integrate knowledge in physical therapy with statistics and research design to critically analyze current physical therapy literature.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2610 Adv Anatomy Physiology Musculoskeletal (3 Credits)**

This course enables the student to understand advanced knowledge of the musculoskeletal system and knowledge of the interaction of this system with the neuromuscular, cardiovascular pulmonary, integumentary, endocrine, reproductive and digestive systems. The advanced knowledge will include synthesizing histology, physiology, pathophysiology, and pathophysiology effects on the musculoskeletal system.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 2611 Mentored Orthopedic Pt Clinical Practice I (0 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 2612 Mentored Orthopedic Pt Clinical Practice II (0 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 2613 Mentored Orthopedic Pt Clinical Practice III (0 Credits)**

This course enables the student to independently examine and reexamine a patient or client with musculoskeletal problems by obtaining a pertinent history from the patient or client and from other relevant sources by performing relevant systems review, and by selecting appropriate age-related tests and measure. The courses also enable the student: to provide direct physical therapy interventions to achieve patient/client outcomes based on the examination and the impairments, functional limitations, and disabilities.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** No

**PT-GE 3001 Practicum Pathokin Research 1 (3 Credits)**

Experience in clinical research centers under supervision of experienced clinical researchers of problems concerned with human motion of cardiopulmonary function.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 3002 Pract in Pathokin Research II (3 Credits)**

Experience in clinical research centers under supervision of experienced clinical researchers of problems concerned with human motion of cardiopulmonary function.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 3006 Dept Sem Physical Therapy (3 Credits)**

Seminar for doctoral students.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 3010 Doctoral Colloquium in Physical Therapy (0-1 Credits)**

Required every semester of all doctoral students who are working on their proposal/dissertations. Taken in lieu of Doctoral Advisement Fee. Provides an opportunity for students to share the most recent development of their proposals/dissertations. Students are expected to report on their own research projects and critique the projects of others in the class. Presentations on research design, statistics, procedures for validity and reliability measures, and grant-writing skills are included.

**Grading:** Grad Steinhardt Pass/Fail

**Repeatable for additional credit:** Yes

**PT-GE 3021 Systematic Reviews Health Prof Interventions I: Writing a Protocol (2 Credits)**

Students explore how to develop a protocol for a systematic review of an intervention for their health profession. Topics covered include formulating questions, identifying populations, intervention/comparisons, and outcome measures with consideration of health inequities in underrepresented populations, planning search strategies, using multiple databases, collecting records, conducting screenings and data extractions, evaluating risk of bias, statistical review, and introduction to meta-analysis and GRADE. Final project is a complete protocol for a full review.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No

**PT-GE 3022 Systemic Reviews Health Prof Interventions II: Synthesizing Data (2 Credits)**

This course enables students to use their own data to assess and synthesize the effects and quality of evidence of outcomes for a systematic review. Topics include evaluating risk of bias across studies, assessing heterogeneity, using GRADE to evaluate quality of evidence, conducting meta-analyses, assessing publication bias, completing a Summary of Findings Table (SoF table), writing up results, discussion, and implications for practice and research with consideration for health inequities. The final project is a completed systematic review.

**Grading:** Grad Steinhardt Graded

**Repeatable for additional credit:** No