

Course Bulletin

126371	Introduction to Microbiology: A Molecular Approach			
Subject:	Catalog Nbr:			
MBS	0200			
2024 SUMR	Primary	James Kubilus		James.Kubilus@tufts.edu
<p>Molecular biology is a broadly based discipline that unites the elements of microbiology (e.g., bacteriology, virology, mycology) with cell biology, biochemistry, biophysics, and genetics. This course describes the study of, and the search to understand, the regulation of gene expression in relation to the growth, metabolism, and development of bacteria, viruses, and other infectious agents. The overall course objectives are to 1) teach students to confront biological problems from within a certain framework, 2) encourage students to exercise their analytical and critical faculties to the utmost, and 3) arrive at solutions to the problems presented by applying their acquired knowledge.</p>				

126396	Medical Histology			
Subject:	Catalog Nbr:			
MBS	0202			
2024 SUMR	Primary	James Kubilus		James.Kubilus@tufts.edu
<p>This course describes the study of form and function of cells, societies of cells (tissues), and organizations of tissues (organs) at the light and electron microscopic levels. As such it combines the principles of traditional cell biology and histology courses. Although lecture and laboratory sessions stress the relationships between structural composition and function, important clinical correlations are provided. The overall course objectives are to 1) develop the concept of the inseparable relationship of form and function, 2) provide adequate perspective and preparation in order to integrate the knowledge of cells, tissues, and organs into the scheme of other basic and clinical biomedical sciences, and 3) demonstrate that the study of cells and tissues is an important approach to the study of the human body in general a strategy that can assist in developing and strengthening powers of critical observation, problem solving, diagnostic reasoning, and judgment.</p>				

126423	Cell Biology			
Subject:	Catalog Nbr:			
MBS	0201			
<p>This course describes the study of form and function of cells, societies of cells (tissues), and organizations of tissues (organs) at the light and electron microscopic levels. As such it combines the principles of traditional cell biology and histology courses. Although lecture and laboratory sessions stress the relationships between structural composition and function, important clinical correlations are provided. The overall course objectives are to 1) develop the concept of the inseparable relationship of form and function, 2) provide adequate perspective and preparation in order to integrate the knowledge of cells, tissues, and organs into the scheme of other basic and clinical biomedical sciences, and 3) demonstrate that the study of cells and tissues is an important approach to the study of the human body in general a strategy that can assist in developing and strengthening powers of critical observation, problem solving, diagnostic reasoning, and judgment.</p>				

126482	Biochemistry			
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Subject: MBS	Catalog Nbr: 0203	2024 SUMR	Primary	James Kubilus	James.Kubilus@tufts.edu
<p>This course describes the study of the chemistry of cells and tissues and presents the biochemical basis for physiologic processes. While emphasis is placed on functional and regulatory aspects, a solid knowledge of the structure of major biochemical substances and of enzymatic reactions is required for understanding how biochemical reactions determine physiologic function and regulation. Although emphasis is placed on normal processes, disease states are presented to show how specific biochemical defects can lead to illnesses. The overall course objectives are to 1) understand how genetic regulation and metabolic reactions determine normal physiologic function, 2) begin to understand the biochemical basis of disease, and 3) use biochemical knowledge to interpret clinical problems.</p>					

126526	Immunology				
Subject: MBS	Catalog Nbr: 0204	2024 SUMR	Primary	Peter Brodeur	peter.brodeur@tufts.edu
<p>This course describes the study of the structure and function of the cells, tissues, organs, and molecules that are responsible for protecting the body against invading pathogens and infectious disease. Basic information is provided on host defense mechanisms, origins and functions of immune cells, innate immunity, the complement system, and specific immunity (humoral and cell mediated mechanisms). Topics also include antibody structure and function, antibody genetics and B cell development, T cell differentiation and activation, cellular cooperation and control of the immune response. Important clinical information is also presented including allergy, hypersensitivity and autoimmune disease, underlying mechanisms of transplantation immunology and tumor immunology, various forms of immunodeficiency including HIV, and methods of manipulating the immune system to treat immunologically mediated diseases. The overall course objectives are to 1) introduce students to important concepts in modern medical immunology, and 2) teach immunological mechanisms that have direct clinical application.</p>					

126554	Introduction to Clinical Medicine				
Subject: MBS	Catalog Nbr: 0205	2024 SPRG	Primary	Najla Fiaturi	Najla.Fiaturi@tufts.edu
<p>This course represents a survey of clinical medicine as practiced by physicians and other health care providers in Western countries. During the first half, students are introduced to basic human physiology; pathophysiology; and the fundamentals of clinical medicine including history taking, the physical examination, diagnostic testing, and modern therapeutics. During the second half, students apply information learned in the first half to the most prevalent diseases that plaque the developed world. Issues pertaining to population medicine and public health, health promotion and disease prevention, behavioral influences on health, and alternative medicine are also covered in the context of applicable disease states. The overall objectives of the course are to 1) identify the major the determinants of health genetic, environmental, behavioral and social and consider the extent to which physicians can influence their health effects; 2) describe the general processes undertaken to arrive at a diagnosis, formulate a treatment plan, counsel a patient, and assess the benefits and harms of an intervention; 3) explore the relevant professional, ethical and interpersonal</p>					

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parameters that define the patient-physician relationship; 4) explain the scientific rationale behind medical decision-making and identify the major non-scientific factors that influence the day-to-day practice of medicine; 5) illustrate common diagnostic, treatment and preventive interventions for selected conditions and describe the principles governing their safe and effective clinical application; and 6) gain first-hand experience in the collection, organization, interpretation, analysis and communication of clinical information.

126692	Nutrition
Subject: MBS	Catalog Nbr: 0209
<p>This course describes the study of the role of specific nutrients in normal metabolism as well as the relationship of nutrition throughout states of life. Topics include the important role of nutrition in the development and treatment of major chronic diseases including heart disease, cancer and obesity; and the relationship of exercise to the maintenance of good health, chronic disease prevention, and the aging process. The overall course objective is to emphasize the value of nutrition and exercise in both health maintenance and disease.</p>	

126823	Thesis
Subject: MBS	Catalog Nbr: 0210

126870	Genetics
Subject: MBS	Catalog Nbr: 0212
<p>Medical genetics involves the application of genetic principles in the practice of medicine. Medical genetics encompasses diagnosis and treatment of genetic diseases, study of inheritance of diseases in families, mapping of disease genes to their chromosome locations, study of the molecular genetics and pathogenesis of inherited disorders, provision of genetic counseling for families, and recently, investigations of methods for gene therapy. Medical geneticists care for fetuses in utero, newborns, children, and adults with inherited conditions, adults with infertility or recurrent miscarriages, and adults who are genetically predisposed to cancer. Unlike any other field, genetics represents a true integration between the basic and the clinical sciences. The overall course objectives are 1) Given a clinical problem, take an appropriate family history; 2) Given a pedigree, determine the most likely mode of inheritance; 3) Given a disorder, whether Mendelian, chromosomal, or multifactorial in origin, determine the likely risk for other family members; 4) Recognize who might benefit from genetic counseling and provide it if the problem is straightforward, or know to whom to refer patients if the problem is complex; 5) Appreciate how a disease gene is localized, learn the potential benefits of understanding the molecular approach to disease, and appreciate the therapy that can derive from this understanding; 6) Take into account the diversity in genetic makeup as an important factor in preventive health care, diagnosis and treatment; 7) Reduce unnecessary exposure to known and potential physical and chemical mutagenic, teratogenic, and carcinogenic agents; 8) Recognize how environment can affect phenotype; 9) Identify ethical dilemmas in providing genetic services.</p>	

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126921	Pharmacology		
Subject: MBS	Catalog Nbr: 0213		
2024 SUMR	Primary	James Kubilus	James.Kubilus@tufts.edu
<p>This course will describe the nature and steps in the drug discovery and development processes; differentiate the interplay between basic and clinical pharmacology and the elements of pathobiology and pathophysiology that lead to drug choices in clinical practice; analyze the principles of selective toxicity and the pharmacokinetic and other mechanisms which underlie the rational use of drugs; identify the properties of drug action at specific receptors and the mechanisms of action of select drugs; determine toxic and therapeutic endpoints and drug side effects and list major indications and contraindications for relevant drugs.</p>			

126961	Computerized Motion/Gait Analysis		
Subject: MBS	Catalog Nbr: 0222		
<p>The course will cover the planning of clinical trials; procedure of data acquisition, and interpretation of results. It will consist of didactic lectures and computer-based sessions at the Tufts/NESH Center for Human Performance. The course includes materials on NIH funded research projects, and students will learn how to conduct biomechanical trials themselves using the Lab's equipment. Interested students will be able to participate in research projects with their results submitted for publication.</p>			

138644	Transfer Credit		
Subject: TRAN	Catalog Nbr: 9999		

138676	Internal Medicine I		
Subject: PA	Catalog Nbr: 0203		
2024 SPRG	Primary	Rayne Loder	Rayne.Loder@tufts.edu
<p>This course will focus on immunology, infectious diseases, and the hematology system. The pathophysiology, presentation, diagnosis, treatment, and prevention of diseases involving these topics will be discussed.</p>			

138677	Internal Medicine II		
Subject: PA	Catalog Nbr: 0204		
2024 SUMR	Primary	Rayne Loder	Rayne.Loder@tufts.edu
<p>This course will focus on diseases of the cardiovascular, pulmonary, and endocrine systems. The pathophysiology, presentation, diagnosis, treatment, and prevention of diseases involving these topics will be</p>			

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discussed.

138678	Principles of Behavioral Medicine
Subject: PA	Catalog Nbr: 0210
<p>This course is an introduction to behavioral medicine. It provides exposure to psychiatric principles, the role of neurotransmitters in the development of psychiatric disorders, the DSM V, the importance of the psychiatric interview, and best practices in approaching patients presenting with psychiatric illness. Students will learn about suspected etiologies, epidemiology, clinical presentation, diagnostic criteria, and the general management of acute and chronic psychiatric disorders commonly seen in general medical practice. Clinical case presentations will be utilized to build clinical thinking skills and application of knowledge gained in lecture.</p>	

138679	OB/GYN
Subject: PA	Catalog Nbr: 0212
2024 FALL	Primary
Beth Buyea	Beth.Buyea@tufts.edu
<p>This course covers the spectrum of reproduction, conception, prenatal care, labor and delivery, and postnatal care. Students will learn the evaluation and management of core OB/GYN health care relating to the reproductive tract, including important aspects of history taking, physical examination, laboratory and imaging assessment of obstetric and/or gynecological patients, application of current concepts in management of diseases and pathologies, family planning, screening, and early detection of cancer and other diseases. The process of delivery and complications of delivery will also be discussed.</p>	

138681	Physical Diagnosis II
Subject: PA	Catalog Nbr: 0216
2024 SUMR	Primary
Michael Otte	Michael.Otte@tufts.edu
<p>This course is the second of the two-course sequence in physical diagnosis. The class is taught using classroom lectures, small group sessions, and student simulation sessions. The classroom lectures are designed to introduce the basic concepts of the clinician – patient encounter, the approach to the physical examination, specific techniques to the physical examination, and how to present the information collected in both oral and written format. Group lab sessions are designed to have skilled clinicians (faculty) assist you with practicing techniques and developing the skills necessary to obtain a complete patient history, perform an appropriate physical examination, as well as present findings concisely and accurately. This second semester course focuses on techniques for obtaining an accurate medical history, laboratory medicine fundamentals, and the physical examination of the thorax and lungs, abdomen/rectum, male/female genitourinary, musculoskeletal, neurological systems, and the approach to the pediatric and geriatric exams.</p>	

138682	Principles of Surgery
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Subject: PA	Catalog Nbr: 0217	2024 SUMR	Primary	Kenneth Hutchinson	Kenneth.Hutchinson@tufts.edu
<p>This course focuses on the study of common surgical conditions, emphasizing risk factors, clinical presentation, diagnostic work-up, indications for surgical intervention, and common complications. There will also be a large focus on preoperative, intraoperative, and postoperative management in both ambulatory and inpatient settings.</p>					

138683	Nutrition				
Subject: PA	Catalog Nbr: 0218	2024 SPRG	Primary	Kelly Kane	Kelly.Kane@tufts.edu
<p>This course offers first year Physician Assistant students an in-depth training in nutrition to acquire knowledge regarding the roles of key nutrients in the prevention and treatment of disease, as well as provide a conceptual basis for the nutrition care of patients.</p>					

138685	Evidence-Based Medicine				
Subject: PA	Catalog Nbr: 0220				
<p>This course introduces students to the knowledge, skills, and abilities necessary to be informed practitioners of evidence-based medicine to include generating clinical questions, conducting literature searches, and appraising and applying medical literature to clinical scenarios. Additionally, students will be introduced to common study designs and statistical analyses, as well as biases commonly encountered in the medical literature. This course will serve as the foundation for completion of their clinical year capstone project.</p>					

138686	Orthopedics				
Subject: PA	Catalog Nbr: 0223	2024 FALL	Primary	Michael Otte	Michael.Otte@tufts.edu
<p>This course will cover the diagnosis and management of common orthopedic conditions and orthopedic emergencies. The course will emphasize anatomy, physiology, incidence, presentation, physical exam findings, laboratory data, diagnostic imaging findings, treatment, and prevention of a wide selection of orthopedic conditions. There will be some discussion of surgical management options of various orthopedic conditions throughout the course. The effect of some systemic illnesses and genetic syndromes on the musculoskeletal system will also be covered in this course.</p>					

138687	Principles of Critical Care Medicine				
Subject: PA	Catalog Nbr: 0227				
<p>This course will introduce students to hemodynamic derangements in multiorgan system failure patients,</p>					

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including shock, trauma, cardiac arrest, acid-base and electrolyte management, and nutritional support. Other topics covered include COVID-19 pneumonia, ventilator management, invasive procedures, and diagnostic methods used in ICU care.

138688	Procedures Workshops			
Subject: PA	Catalog Nbr: 0240	2024 FALL	Primary	Mercedes Colangelo Mercedes.Colangelo@tufts.edu
<p>This course for Physician Assistant students focuses on common bedside procedures performed in clinical practice. Procedures taught range from simple laceration repair and phlebotomy to invasive procedures such as lumbar puncture and endotracheal intubation. Using peer practicums (venipuncture) and simulation models for more invasive procedures, key concepts and techniques will be taught.</p>				

138689	Primary Care II			
Subject: PA	Catalog Nbr: 0236	2024 SUMR	Primary	Rosanne Washington Rosanne.Washington@tufts.edu
<p>This course is a continuation of Primary Care I and offers first year Physician Assistant students in-depth training in a wide variety of clinically related subjects, including common cardiovascular disorders, respiratory disorders, sleep disorders, and endocrinologic disorders encountered in the primary care setting. The pathophysiology, clinical presentation, diagnosis, treatment, and prevention of diseases involving these topics will be discussed. Clinical case discussions and a simulated patient experience will be utilized to build the students' critical thinking skills.</p>				

138690	Primary Care III			
Subject: PA	Catalog Nbr: 0237			
<p>This course is a continuation of Primary Care Medicine I and II and offers first year Physician Assistant students in-depth training in a wide variety of clinically related subjects, including common oral health conditions, urologic conditions, and special topics in medicine not covered elsewhere in the curriculum. The pathophysiology, clinical presentation, diagnosis, treatment, and prevention of diseases involving common oral health and urologic conditions topics will be covered. Special topics in medicine presented in this course include chronic pain management, opioid use disorder, health maintenance, smoking cessation, metabolic health, telemedicine, shared decision making, and motivational interviewing. Clinical case discussions/workshops and a simulated patient experience will be utilized to build the students' patient care and critical thinking skills.</p>				

138705	Clinical Anatomy I			
Subject:	Catalog Nbr:			

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PA	0201				
	2024 SPRG	Primary	Krista Johansen		Krista.Johansen@tufts.edu
<p>This course offers first-year Physician Assistant students an in-depth training in the macroscopic structure and function of the human body and anatomically based clinical problem solving. Through lectures, workshops, and cadaveric laboratory investigation, students will build on their prior anatomic knowledge and clinical experience to develop a strong foundation to the structure, function, and clinical significance of the back and spinal cord, thorax, abdomen, and pelvis. Upon completion of the course, students will be able to identify normal anatomical structures, recognize variant and abnormal anatomy, and apply anatomical knowledge to radiologic imaging, physical examination, clinical conditions, and procedures.</p>					

138706	Clinical Anatomy II				
	Subject:	Catalog Nbr:			
	PA	0202			
	2024 SUMR	Primary	Peter Geck		peter.geck@tufts.edu
<p>This course builds upon PA 0201 and offers first year Physician Assistant students an in-depth training in the structure and function of the human body. Utilizing lectures, discussion, models, and cadavers, students will have a structural introduction to the musculoskeletal system, head, and neck. Upon completion of the course, students will be able to identify normal anatomical structures, recognize abnormal anatomy, and determine the clinical implications of pathologic anatomy.</p>					

138707	Internal Medicine III				
	Subject:	Catalog Nbr:			
	PA	0205			
	2024 FALL	Primary	Haili Dunbar		Haili.Dunbar@tufts.edu
<p>This course will focus on diseases of the gastrointestinal, renal, and rheumatologic systems. The pathophysiology, presentation, diagnosis, treatment, and prevention of diseases involving these topics will be discussed.</p>					

138708	Pharmacology I				
	Subject:	Catalog Nbr:			
	PA	0206			
	2024 SPRG	Primary	Paul Abourjaily		Paul.Abourjaily@tufts.edu
<p>This is the first of a two-course sequence in pharmacology. This course first introduces the student to the principles of pharmacokinetics and pharmacodynamics. Students will then examine the classification, mechanisms of action, and use of a broad spectrum of therapeutic agents. Focus is placed on dose response, side effects, adverse reactions, and the role of patient concordance in medication effectiveness.</p>					

138709	Pharmacology II				
	Subject:	Catalog Nbr:			
	PA	0207			

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2024 SUMR	Primary	Paul Abourjaily	Paul.Abourjaily@tufts.edu
2024 SUMR	Primary	Rosanne Washington	Rosanne.Washington@tufts.edu

This is the second of a two-course sequence in pharmacology. This course continues to examine the classification, mechanisms of action, and use of a broad spectrum of therapeutic agents. Focus is placed on dose response, side effects, adverse reactions, and the role of patient concordance in medication effectiveness.

138710	Professional Practice		
Subject:	Catalog Nbr:		
PA	0213		
2024 SPRG	Primary	Beth Buyea	Beth.Buyea@tufts.edu
<p>This course will review and discuss the history of the Physician Assistant profession to the present time. Topics such as the role of the PA in the US health care system, scope of practice, professional and legal restrictions, national board certification, and state licensure will be addressed. Interdisciplinary dynamics, PA-supervisor relationships, hospital credentialing, practice management and ownership, billing and insurance, medical ethics, medical malpractice, provider burnout, and continuing medical education will also be discussed.</p>			

138711	Physical Diagnosis I		
Subject:	Catalog Nbr:		
PA	0215		
2024 SPRG	Primary	Michael Otte	Michael.Otte@tufts.edu
<p>This course, the first of a two-course sequence, will be the first-year Physician Assistant students' first formal introduction to patient assessment. The class is taught using classroom lectures, small group sessions, and student simulation sessions. The classroom lectures are designed to introduce the basic concepts of the clinician – patient encounter, components of a complete patient history, approach to the physical examination, specific techniques to the physical examination, and how to present information collected in both oral and written format. Group lab sessions are designed to have skilled clinicians (faculty) assist you with practicing techniques and developing the skills necessary to obtain a complete patient history, perform an appropriate physical examination, as well as present findings concisely and accurately. This first semester focuses on the medical history, laboratory medicine fundamentals, vital signs, and the physical examination of the skin, head, eyes, ears/nose/throat, neck, cardiovascular, and peripheral vascular systems.</p>			

138712	Principles of Neuroscience		
Subject:	Catalog Nbr:		
PA	0221		
<p>This course emphasizes the importance of the medical interview and the neurological examination to make neurologic diagnoses. During this course, physical examination skills learned thus far will be reinforced, with particular emphasis on the neurological examination. The signs, symptoms, and pathophysiology of neurologic diseases commonly encountered in primary care, internal medicine, and emergency medicine will be reviewed. Appropriate use and interpretation of diagnostic testing, including radiographic imaging and laboratories, will be explained.</p>			

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138713	Pediatrics			
Subject:	Catalog Nbr:			
PA	0222			
<p>This course provides the foundation of knowledge in pediatric health and organ-specific issues related to this patient population. Normal child growth and development and its aberration, as well as the importance of childhood immunizations, will be discussed. Additionally, the recognition of common childhood diseases of each organ system will be emphasized, as will diagnosis and management of common childhood diseases. In this course, emphasis is placed on addressing pediatric respiratory, cardiovascular, renal, and gastrointestinal illnesses and emergencies, as well as infectious diseases, cancer/hematologic disorders, pediatric ENT and ophthalmology, and endocrinology. Pertinent concepts related to child abuse/neglect, ADHD, and autism spectrum disorder will be covered as well.</p>				

138714	Diagnostic Imaging			
Subject:	Catalog Nbr:			
PA	0229			
2024 SUMR	Primary	Carolina Reveron-Arias	Carolina.Reveron_Arias@tufts.edu	
<p>This course will cover radiologic safety, imaging modalities, indications, contraindications, and benefits and risks of imaging use. Assessment of common imaging modalities, including those used in primary care and emergency medicine, will be addressed. Students will be taught to recognize common radiologic abnormalities.</p>				

138715	Emergency Medicine			
Subject:	Catalog Nbr:			
PA	0225			
2024 SUMR	Primary	Joseph Sansone	Joseph.Sansone@tufts.edu	
<p>This course provides fundamental instruction in the diagnosis and management of both common and life-threatening patient presentations to the emergency department. Emphasis will be placed upon acute care, medical emergencies, surgical emergencies, and trauma, including emergency presentation of patients in cardiac arrest, chest pain, shock, respiratory distress, altered mental status, anaphylaxis, hypertensive crisis, acute EENT problems, and acute psychiatric illness.</p>				

138716	Geriatrics			
Subject:	Catalog Nbr:			
PA	0230			
<p>This course will introduce students to the process of aging as it affects the human body and mind. Atypical presentations of common acute and chronic diseases as they are seen in older populations will be addressed, as will the challenges of managing various and concomitant disease states. Pharmacologic therapy in older patients, Alzheimer's disease, dementia, patient compliance issues, and end-of-life care will be discussed as well.</p>				

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138717	Physical Medicine and Rehabilitation		
Subject: PA	Catalog Nbr: 0231		
<p>This course will cover acute and chronic recovery from disease and injury as it applies to physician assistant practice. Implications of and indications for rehabilitative services, levels of care required, and specific interventions and therapies will be discussed. A basic review of the field of physical medicine and rehabilitation will make students aware of a relatively new body of knowledge and give some insight into evolving areas of PA practice, as well as resources available to them as practitioners. Discussion of therapies and interventions will include insight into what benefits might be expected.</p>			

138718	Primary Care I		
Subject: PA	Catalog Nbr: 0235		
2024 SPRG	Primary	Haili Dunbar	Haili.Dunbar@tufts.edu
<p>This course offers first year Physician Assistant students in-depth training in a wide variety of clinically related subjects, including public health, medical genetics, dermatology, otolaryngology, and ophthalmology. The pathophysiology, clinical presentation, diagnosis, treatment, and prevention of diseases involving these topics will be discussed. Clinical case discussions and a simulated patient experience will be utilized to build the students' critical thinking skills.</p>			

138719	Capstone Project		
Subject: PA	Catalog Nbr: 0250		
2024 FALL	Primary	Beth Buyea	Beth.Buyea@tufts.edu
<p>Capstone is a year-long course designed to create a clinically relevant, scholarly activity in a mentored environment. The project serves as the culminating experience for graduate education in Physician Assistant studies and must be completed prior to the awarding of the MMS degree.</p>			

138759	Bioethics for the Physician-Scientist		
Subject: MBS	Catalog Nbr: 0225		
<p>This course will cover the following topics: foundations of bioethics including the Nuremburg and Helsinki Codes; scientific misconduct including plagiarism, intellectual dishonesty, fraud, misuse of statistics, and protecting both complainants and respondents; the human treatment of animals in research; mentoring in both the laboratory and hospital, including respect for trainees, harassment issues, developing independence, and the mentor as role model; human volunteers, including informed consent; use of placebos; research on vulnerable populations including children, prisoners, pregnant women and their fetus, military personnel, students, economically/culturally disadvantaged, and the elderly; and stem cell research/cloning/regenerative medicine.</p>			

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138760	Bioethics for the Budding Clinician
Subject: MBS	Catalog Nbr: 0226
<p>This course will cover the following topics: foundations of bioethics including the Nuremburg and Helsinki Codes; conflicts of interest; patient rights; apologies in medicine; religion and medicine; death and dying; conception and birth; assisted reproductive technologies; new technologies, including telemedicine and robotic surgery; organ transplantation; and the ethics of clinical trials and genetic testing.</p>	

139075	Emergency Medicine Core Rotation
Subject: PA	Catalog Nbr: 0301
<p>The Emergency Medicine Supervised Clinical Practical Experience (SCPE) exposes students to a broad range of experiences and patient populations in the emergency room for acutely ill patients. Students will hone their skills in triage, learning to recognize and manage patients that need immediate care. They will learn to prioritize care for conditions which are less urgent. Students will be responsible for taking medical histories and performing physical examinations on acute as well as emergent patients and presenting these to the medical preceptor. When appropriate, students will perform necessary diagnostic and therapeutic measures.</p>	

139076	Family Medicine Core Rotation
Subject: PA	Catalog Nbr: 0302
<p>The Family Medicine Supervised Clinical Practical Experience (SCPE) exposes students to a broad range of experiences and patient populations that emphasize the patient as an individual and family member. Students are involved in the initial and ongoing assessment of patients in all age groups as well as management of individuals with new and established diagnoses. Emphasis is placed on evaluation, management, health promotion, and preventative medicine. Students are expected to be involved in the care of acute, chronic, and preventative visits.</p>	

139077	Inpatient Internal Medicine Core Rotation
Subject: PA	Catalog Nbr: 0303
<p>The Inpatient Internal Medicine Supervised Clinical Practical Experience (SCPE) offers students an opportunity to become familiar with the assessment and management of varied medical problems that result in admission to the hospital. Students will attend medical rounds, perform diagnostic procedures, present case write-ups, record progress notes, and assist with discharge planning. It emphasizes the skills of collecting, assessing, and presenting patient data; ordering appropriate laboratory and diagnostic studies; counseling patients about therapeutic procedures; and helping to coordinate the contributions of other health professionals involved in management of the patient.</p>	

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139078	Surgery Core Rotation
Subject: PA	Catalog Nbr: 0304
<p>The Surgery Supervised Clinical Practical Experience (SCPE) exposes students to varied surgical patient care responsibilities with emphasis on general surgery, though students may have some exposure to surgical specialties and subspecialties. Students assist in surgical patients' preoperative initial assessment, which includes obtaining accurate medical histories and performing physical examinations. They also participate in preoperative management, including patient education and procedures necessary to prepare patients for surgery. Students assist surgeons in the operating room and have an opportunity to become familiar with operating room procedures and equipment. Students are also involved in patients' postoperative evaluation and management.</p>	

139079	Behavioral Medicine Core Rotation
Subject: PA	Catalog Nbr: 0305
<p>The Behavioral Medicine Supervised Clinical Practical Experience (SCPE) is designed to provide an understanding of the behavioral components of health, disease, and disability. Through exposure to patients presenting with a broad spectrum of psychiatric disorders, students will develop history taking and mental status examination skills, classification skills utilizing DSM IV TR criteria, and be exposed to and evaluate different treatment modalities for varying presentations. The student will enhance their ability to recognize and categorize psychiatric disturbances and techniques of early intervention and psychiatric referral. Students are expected to be involved in the care of acute and chronic visits.</p>	

139080	Pediatrics Core Rotation
Subject: PA	Catalog Nbr: 0306
<p>The Pediatrics Supervised Clinical Practical Experience (SCPE) is designed to develop the students' familiarity with pediatric medicine. The rotation will emphasize caring for a child from birth through adolescence. Students are provided opportunities to take medical histories and perform pediatric physical examinations. The focus will be on diagnosing and managing common childhood illnesses and evaluation of growth and development. Students will work on developing skills to counsel families about immunizations, child visits, growth and development parameters, common psychosocial problems, nutrition, and accident and poisoning prevention.</p>	

139081	OB/GYN Core Rotation
Subject: PA	Catalog Nbr: 0307
<p>The OB/GYN Supervised Clinical Practical Experience (SCPE) allows students to participate in all aspects of OB/GYN care, including acute, preventive, chronic, and emergent situations. Students will be exposed to prenatal, labor and delivery, and postpartum care. Also, students will care for women across the lifespan,</p>	

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including menarche, infertility, menstrual conditions, benign and malignant gynecologic conditions, menopause, and postmenopausal situations.

139082	Orthopedic Core Rotation
Subject: PA	Catalog Nbr: 0308
<p>The Orthopedic Supervised Clinical Practical Experience (SCPE) offers students an opportunity to care for injured and infirm patients in a variety of settings including, rehabilitation centers, and convalescent facilities, and exposes the student to issues of caring for patients with sub-acute but in many cases, multiple problems complicated by advanced age, post-acute event recovery issues, and complex social and economic problems commonly seen in this population. Students will also receive exposure to common musculoskeletal injuries from a broad range of etiologies.</p>	

139403	Medical Physiology
Subject: PA	Catalog Nbr: 0208
2024 SPRG	Primary
Selen Olgun	Selen.Olgun@tufts.edu
<p>This course will cover the study of body function at many different levels of organization, including molecular, cellular, tissue, organ, and organ systems. This medical physiology course will include instruction on neural and hormonal homeostatic control mechanisms, as well as the study of musculoskeletal, circulatory, respiratory, digestive, urinary, endocrine, and reproductive systems. This course will take an organ system approach to review basic principles of physiology as they relate to the practice of medicine. Integrating anatomy, pharmacology, and internal medicine, these lectures will help students gain an understanding of the physiological basis of medical practice.</p>	

140095	Mental Illness and its Pharmacologic Management
Subject: MBS	Catalog Nbr: 0229
<p>Emotional disorders and mental illness are commonly encountered in medical practice by primary care physicians, internists, and most of the medical subspecialties. These disorders can present as the principal reason for seeking health care, or as components or consequences of other underlying medical disorders. The majority of such individuals are not referred for specialty treatment by psychiatrists, but rather are managed by their primary physicians. The principal objective of this course is to introduce MBS candidates -- the majority of whom will go on to become physicians involved in primary health care delivery -- to the fundamental features of emotional disorders and mental illnesses encountered in clinical medicine, and pharmacologic approaches to management of these disorders. The instructional strategy will involve integrated teaching by Tufts-affiliated physicians having extensive experience in clinical psychopharmacology, together with basic/clinical pharmacology instruction by the course director and other faculty with a focus on mechanisms of psychotropic drug action, principles of appropriate clinical use, and recognition of hazards and adverse reactions.</p> <p>The course will meet once each week for 12 weeks in the Spring semester for 90 minutes per session, for a</p>	

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total of 20 contact hours. The core topics will be:

- The epidemiology of mental illness, and the relation to primary care medicine.
- Anxiety and panic disorders
- Anxiolytic and anti-panic drugs
- Sleep disorders
- Sedative-hypnotic medications
- The clinical spectrum of depression and mood disorders
- Antidepressant agents
- Bipolar disorder and its treatment
- Schizophrenia and other thought disorders
- Medications used to treat schizophrenia
- Substance abuse and its pharmacologic treatment
- Complementary and alternative medicines
- Genetics of mental illness and its pharmacologic treatment
- Drug interactions in psychopharmacology
- Topical review

141312	Principles of Electrocardiography		
Subject:	Catalog Nbr:		
PA	0239		
2024 SUMR	Primary	Dana Goldense	Dana.Goldense@tufts.edu
<p>This course is an elementary introduction into electrocardiography. Students will learn the basics of electrical impulses generated by the heart's electrical conduction system and the manifestation of these impulses on paper charts and ECG monitors. Students will learn to identify conduction abnormalities, atrial and ventricular arrhythmias, heart blocks, and ischemic and infarction changes as generated on ECGs. They will learn to calculate heart rates, axis deviations, and chamber hypertrophy, as well as putting it all together to provide an interpretation of the classic 12-lead EKG.</p>			

142840	Immunotherapy of Cancer and Autoimmune Disease		
Subject:	Catalog Nbr:		
MBS	0231		
<p>In the last few years we have seen a revolution in the treatment of cancer and autoimmune diseases - we cannot turn on the television or open a magazine or newspaper without seeing an ad for some new medication to treat a specific cancer or autoimmune disease.</p> <p>The reasons for this revolution in clinical treatment are clear - advances in "immunotherapy": the manipulation of some component or arm of the immune response to treat disease. What are these advances? The theory that underlies the successful use of immunotherapy is an extension of the basic immunological concepts taught to students in their first year immunology course. This short course will explore this new and exciting clinically relevant area.</p>			

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143793	Introduction to Dentistry I: The Profession and Dental Ethics			
Subject: MBS	Catalog Nbr: 0233	2024 SPRG	Primary	Kathryn Ragalis kathryn.ragalis@tufts.edu
<p>The Introduction to Dentistry I course brings highlights from the year one curriculum for dental students at Tufts University School of Dental Medicine. The sessions cover critical components of the dental profession: a history of dentistry, dental ethics, and professionalism.</p> <p>Dental professionals possess extensive technical knowledge and clinical skills and are expected to be ethical leaders who exercise sound professional judgment. The ethics and professionalism portion brings forward principles and codes of conduct that guide a dental professional and promote ethical and professional conduct in the classroom, in dental school clinic, and throughout life as a dental professional. Current issues in dental education and the practice of dentistry will be discussed. Students will engage in exercises and discussions to provoke thought, stimulate interest, provide skills, and instill an ongoing commitment to being an ethical dental professional.</p>				

143794	Introduction to Dentistry II: The Primary and Permanent Dentitions			
Subject: MBS	Catalog Nbr: 0234			
<p>The Introduction to Dentistry II course brings highlights from the year one course for dental students at Tufts University School of Dental Medicine. The sessions cover both the primary and permanent dentitions.</p> <p>The course covers basic knowledge about the morphology of human teeth, and how tooth shape, form, and structure relate to their function. The study of dental anatomy provides basic skills needed to practice dentistry. By the end of the course, students will be able to use common terminology, identify characteristics in each tooth form and the relationship to tooth function, how it corresponds with ideal static occlusion.</p> <p>A tooth wax-up exercise is included to reinforce comprehension and begin development of manual skills.</p>				

143795	Cancer Biology and Molecular Oncology			
Subject: MBS	Catalog Nbr: 0235			
<p>Advancements in understanding cancer biology continue at an impressive rate. Scientific findings lead to better stratification of disease based on molecular drivers, as well as improvements in targeted therapy. These scientific and clinical advancements have, unsurprisingly, lead to improvements in cancer patient morbidity and mortality. In other words, patients survive longer and adjuvant therapies are better tolerated.</p> <p>What are the scientific advances underpinning our deepening knowledge of cancer initiation and metastasis? What are the new, targeted therapies that have led to improved cancer patient survival? The answers to these two questions will be explored through both lecture and discussion of scientific literature and clinical data. We will explore both the concepts of signal transduction and gene expression that underlie the development of targeted therapies and is an extension of the basic cell biology and biochemistry concepts taught to students in first-year courses. The material presented complements, but does not overlap, the Immunotherapy</p>				

Course Bulletin

elective. Where appropriate, connections to the Immunotherapy elective will be highlighted.

143997	Elective Rotation
Subject: PA	Catalog Nbr: 0309
<p>This Elective Supervised Clinical Practical Experience (SCPE) is designed to provide the student with the knowledge and skills in an area of interest. Students will gain an understanding of the variety of problems encountered in a medical or surgical sub-specialty discipline. The understanding of the varied medical and/or surgical sub-specialty problems is accomplished through history taking, physical exam, interpretation of diagnostic testing, and the development of a plan for each presenting problem including pharmacologic and non-pharmacologic management. In addition to gaining clinical skills specific to the specialty of the rotation, the student will also continue to develop skills in medical problem solving and patient management. Elective rotation sites are chosen based on practice characteristics that are important for the PA student within this rotation. These may include practice location, patient populations, and availability of specific experiences and procedures.</p>	

144017	Ambulatory Care/Outpatient Selective Rotation
Subject: PA	Catalog Nbr: 0312
<p>The Ambulatory Care/Outpatient Supervised Clinical Practical Experience (SCPE) offers students the ability to spend additional time in an outpatient medical clinic and is meant to compliment the family medicine rotation. Students are involved in the initial and ongoing assessment of patients as well as management of individuals with established diagnoses. Students may see patients in venues that include hospital ambulatory care clinics, private offices, family medicine practices, clinics, and urgent care settings. As a selective, students may be placed in general medicine ambulatory rotations or a more specialized ambulatory care clinic.</p>	

144018	Inpatient Medicine Selective Rotation
Subject: PA	Catalog Nbr: 0313
<p>During this Inpatient Medicine Supervised Clinical Practical Experience (SCPE), students will be exposed to patients presenting with acute and chronic illness requiring admission to the hospital setting. Students will elicit and record medical histories, perform physical examinations, and be involved in the management of the admitted patient. This SCPE is meant to complement the inpatient internal medicine core rotation by offering students additional time learning how to care for admitted patients. As a selective, students may be placed in a general inpatient medicine rotation or a more specialized in-patient experience.</p>	

144363	Basic and Clinical Human Anatomy
Subject: MBS	Catalog Nbr: 0211
2024 SUMR	Primary
James Kubilus	James.Kubilus@tufts.edu

Course Bulletin

This course describes the study of the structure of the human body as seen through dissection and medical imaging, including radiography and magnetic resonance. Topics covered include the anatomy of the Extremities, Thorax, Abdomen, and Pelvis. Laboratory exercises will include computer-based dissections using 3-D reconstructions based on the Visible Human Project as well as 2-D cross sections and radiographic images. The overall course objectives are to 1) provide students with an introduction to anatomical and medical terminology and basic information on grossly dissectible structures in the human body, and 2) apply this knowledge to clinical and diagnostic problem-solving.

144602	Head and Neck Anatomy			
	Subject:	Catalog Nbr:		
	MBS	0236		
<p>This course provides an overview of Head and Neck Anatomy for students who plan a career in Medicine, Dentistry or as a Physician Assistant. It is meant to be a follow-up to MBS 211: Introduction to Basic and Clinical Anatomy, taught earlier in the Spring Semester. Primarily through hands-on dissection, and supplemented by pre-recorded lectures, students will learn the gross anatomical structures of the Head and Neck and the relationship of this region to the organization of the musculoskeletal and nervous systems, vasculature, and lymphatics of the rest of the body.</p>				

144603	The Developmental Origin Of Adult Diseases			
	Subject:	Catalog Nbr:		
	MBS	0237		
<p>Recent clinical and epidemiological studies reveal that changes in the maternal environment play a major role in the genesis of certain diseases in her fetus, and that these diseases manifest once the exposed fetus reaches adult life. The importance of this field of developmental pathogenesis is growing rapidly, and it is expected to become a major medical discipline. For example, nutritional deprivation during gestation, caused by famine, war and migrations increases the likelihood of the fetus developing hypertension and stroke if exposure to famine occurs during the 1st trimester. Fetuses exposed during the 2nd trimester have an increased propensity of developing diabetes and heart disease. Similarly, exposure to certain hormonally-active agents (also known as endocrine disruptors) such as pesticides during fetal and early postnatal development increase the propensity of developing breast cancer during adult life, as does exposure to the estrogen DES before the 13th week of development. Recently, disease susceptibilities (autism, behavioral deficits, cancer, diabetes, obesity, asthma) are also being linked with exposure to environmental toxins. In sum, the environment interacts with the developing organism to produce novel, at times impaired or disease-prone phenotypes. Thus, ecological developmental biology is becoming a medical discipline in the 21st century.</p>				

144653	Physical Therapy Fundamentals			
	Subject:	Catalog Nbr:		
	DPT	0700		
	2024 SUMR	Primary	Elizabeth Wonsetler-Jones	Elizabeth.Wonsetler-Jones@tufts.edu
	2024 SUMR	Secondary	Anthony Carroll	Anthony.Carroll@tufts.edu

Course Bulletin

This course introduces fundamental physical therapy skills, patient management frameworks, and the clinical examination sequence used throughout the curriculum. Psychomotor skills that are foundational to clinical examination and evaluation are introduced, including but not limited to vital signs, patient positioning and handling skills, goniometry/range of motion, and muscle testing. Students will begin to develop patient interview and documentation skills.

144654	Evidence-Based Practice I			
Subject: DPT	Catalog Nbr: 0711			
2024 FALL	Secondary	Gabriele Moriello	Gabriele.Moriello@tufts.edu	
<p>This course introduces the foundation to general research and evidence-based principles by exploring research methodologies and applied statistics used in health care. Introduces foundational concepts of scientific inquiry for clinicians with creating clinical questions, searches appropriate literature sources, and assesses the evidence quality.</p>				

144655	Human Physiology			
Subject: DPT	Catalog Nbr: 0703			
2024 SUMR	Primary	Neeti Pathare	Neeti.Pathare@tufts.edu	
2024 SUMR	Secondary	Ronald Schenk	Ronald.Schenk@tufts.edu	
<p>This course provides the foundational knowledge related to physiology and pathophysiology. Key principles of cellular physiology and major organ systems - neuromuscular, cardiovascular, pulmonary, integumentary, gastrointestinal, renal and endocrine will be reviewed. Physiologic principles necessary for functional movement and the associated effects of physical activity on health and wellness across the lifespan will be presented. This course will introduce the pathogenesis of common conditions encountered by the physical therapist.</p>				

144656	Human Anatomy			
Subject: DPT	Catalog Nbr: 0705			
2024 SUMR	Primary	Mark Wilhelm	No Email on file.	
2024 SUMR	Secondary	Joshua Cleland	Joshua.Cleland@tufts.edu	
<p>This course introduces foundational knowledge of gross anatomy and neuroanatomy. Explores clinical application of embryology, histology, and joint structure and function and the forces that affect human movement across the lifespan of the spine, lower and upper quarter. Laboratory experiences include 3-dimensional anatomy software, living/surface anatomy, anatomical models, and cadaver prosections. This course addresses the content of the anatomical regions, including the spine, thorax, pelvis, and both upper and lower extremities. Emphasis is on the neuromuscular and musculoskeletal anatomy.</p>				

144658	Professional Expectations			
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Course Bulletin

Subject:	Catalog Nbr:			
DPT	0710			
2024 SUMR	Primary	Jennifer Parent-Nichols	No Email on file.	
2024 SUMR	Secondary	Moyo Tillery	Moyo.Tillery@tufts.edu	

The course defines professional conduct and the application of generic skills as they relate to the practice of physical therapy. Throughout this course, students explore the interprofessional roles and responsibilities of the healthcare team, including those of the physical therapist. This course highlights the importance of communication (verbal, nonverbal, and written), individual and cultural differences, professional behavior and abilities, ethics, legal issues, scope of practice, and responsibility for professional development. This course is designed to prepare students for the professional curriculum and clinical practice.

144659	Movement Science			
Subject:	Catalog Nbr:			
DPT	0713			
2024 SUMR	Primary	Craig Wassinger	Craig.Wassinger@tufts.edu	
2024 SUMR	Secondary	Jason Cook	Jason.Cook@tufts.edu	

This course introduces the student to the fundamentals of movement science, offers a framework for understanding normal and abnormal movement, and includes concepts of kinesiology, biomechanics, neuroscience, physiology, motor control, and motor learning. The course will integrate theory and basic principles of motor development, motor behavior, motor control, and motor learning as they relate to human movement and gait across the lifespan. Emphasis is on the integration of theory, structured movement analyses of activities performed in daily life, and the application of the International Classification of Functioning, Disability, and Health (ICF) model to inform clinical decision making in physical therapist practice.

144660	Therapeutic Interventions			
Subject:	Catalog Nbr:			
DPT	0715			
2024 FALL	Primary	Brandon Ness	Brandon.Ness@tufts.edu	
2024 FALL	Primary	Gabriele Moriello	Gabriele.Moriello@tufts.edu	

This course introduces foundational biopsychosocial principles related to therapeutic interventions. Principles and application of therapeutic exercise and healing response for the management of patients with pain, strength, and mobility impairments are presented. This course also introduces interventions for pain modulation using selected physical agents, movement, manual therapy techniques, and education for the management of patients with pain and tissue injury while addressing impairments related to mobility, strength, and motor control. The course emphasizes current evidence and clinical decision-making to facilitate appropriate selection, instruction, and progression of interventions.

144661	Musculoskeletal Practice Management: Lower Quarter			
Subject:	Catalog Nbr:			
DPT	0730			
2024 SPRG	Primary	Ronald Schenk	Ronald.Schenk@tufts.edu	
2024 SPRG	Primary	Moyo Tillery	Moyo.Tillery@tufts.edu	

Course Bulletin

This course continues the examination, evaluation, and intervention sequence of the neuro-musculoskeletal system. This course builds upon the fundamentals of examination and intervention that will be utilized across the two-course series. This course emphasizes the clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the lower quarter of the body. The course concentrates on the application of critical thinking and psychomotor skills related to examination and evidence-based interventions which emphasize patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan. This course continues the development of critical thinking and reasoning strategies through clinical presentations and management.

144663	Clinical Prevention and Population Health I			
Subject: DPT	Catalog Nbr: 0718			
	2024 SPRG	Primary	Jason Cook	Jason.Cook@tufts.edu
	2024 SPRG	Secondary	Brandon Ness	Brandon.Ness@tufts.edu
	2025 SPRG	Secondary	Joshua Cleland	Joshua.Cleland@tufts.edu
<p>This course will examine the physical therapist's role in injury prevention, health, wellness, and fitness. Related content will be introduced including the social determinants of health, nutritional influences, sleep hygiene, fitness testing, and exercise prescription in a healthy population. An expanded worldview of the public health issues that impact physical therapy practice will be provided, and the unique role of physical therapists in promoting physical activity will be highlighted.</p>				

144664	Clinical Neuroscience			
Subject: DPT	Catalog Nbr: 0709			
	2024 FALL	Secondary	Jason Cook	Jason.Cook@tufts.edu
<p>This course explores the neuroscience of the movement system, with emphasis on the neuroanatomical structures and neurophysiological functions of the motor, sensory, and autonomic systems that regulate movement. Lab activities include psychomotor performance and interpretation of tests and measures of the neurologic examination.</p>				

144666	Prosthetics and Orthotics			
Subject: DPT	Catalog Nbr: 0728			
	2024 FALL	Secondary	Carla Sabus	Carla.Sabus@tufts.edu
<p>This course provides a foundation for decision making and interprofessional practice relating to the recommendation for and use/modification of orthoses and prostheses in physical therapy practice. Concepts of orthotic and prosthetic device materials, design, fabrication, and technology are introduced. The course will emphasize physical therapy examination, assessment, plan of care development and modification, and outcomes specific to the patient requiring or having orthotic and prosthetic devices. Principles of gait analysis, limb amputation, wearing/fitting of orthoses and prostheses, education, the importance of therapeutic alliance and interprofessional collaboration, and the psychosocial considerations of the patient with orthotic and prosthetic devices are implicit in this course.</p>				

Course Bulletin

144667	Pharmacology			
Subject:	Catalog Nbr:			
DPT	0764			
2024 FALL	Secondary	Kimberly Tyler	Kimberly.Tyler@tufts.edu	
<p>This course introduces pharmacologic principles, the study of prescription and/or over-the-counter medications use in the management of a variety of patient conditions encountered during physical therapy management, and their impact on patient management across the lifespan. This includes an understanding of the pharmacotherapeutics, pharmacokinetics, and pharmacodynamic properties of common drug classifications. The impact of medications on patient presentation, timing of rehabilitation sessions, and physical therapy outcomes are emphasized. Included in this course will be an overview of the impact of pharmaceutical interventions on physical therapy patient management across the lifespan and movement systems (cardiovascular, pulmonary, neurological, gastrointestinal, musculoskeletal, and integumentary systems).</p>				

144668	Musculoskeletal Practice Management: Upper Quarter			
Subject:	Catalog Nbr:			
DPT	0734			
<p>This course initiates examination, evaluation, and intervention sequence of the neuro-musculoskeletal system. This course provides the fundamentals of examination and intervention that will be utilized across the two-course series. This course emphasizes the clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the upper quarter of the body. The course concentrates on the application of critical thinking and psychomotor skills related to examination and evidence-based interventions which emphasize patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan. This course initiates the development of critical thinking and reasoning strategies through clinical presentations and management.</p>				

144670	Neuromuscular Practice Management I			
Subject:	Catalog Nbr:			
DPT	0740			
2024 SPRG	Primary	Jason Cook	Jason.Cook@tufts.edu	
2024 SPRG	Primary	Aaron Embry	Aaron.Embry@tufts.edu	
2024 SPRG	Secondary	Alicia O'Hara	No Email on file.	
<p>This is the introductory course where students will apply their knowledge of theoretical frameworks to guide the examination, evaluation, and management of individuals with movement dysfunction resulting from acquired conditions or injury of the central and peripheral nervous systems. Lab experiences allow students to build on their critical thinking and reasoning skills and apply knowledge of the movement system to develop and implement evidence-based, patient-centered plans of care.</p>				

144671	Neuromuscular Practice Management II			
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Course Bulletin

Subject: Catalog Nbr:
DPT 0745

2024 SUMR	Primary	Aaron Embry	Aaron.Embry@tufts.edu
2024 SUMR	Primary	Gabriele Moriello	Gabriele.Moriello@tufts.edu

This is the second course in the examination, evaluation and management of specific neuromuscular disorders including movement disorders and neurological conditions. This course focuses on central nervous system pathology, with emphasis on movement disorders, vestibular conditions, motor neuron diseases, and cerebellar conditions. Lab experiences continue to develop critical thinking and reasoning, and psychomotor skills for treatment and management of patients with neurologic disease. This course builds on the student's critical thinking and reasoning strategies through clinical presentations and management in a patient-centered approach.

144672**Patient Centered Care**

Subject: Catalog Nbr:
DPT 0753

2024 FALL	Secondary	Elizabeth Wonsetler-Jones	Elizabeth.Wonsetler-Jones@tufts.edu
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This course further explores the professional roles of physical therapists, demonstrating the APTA core values of accountability, compassion/caring, altruism, and self-reflection. The course is tailored specifically to the work of a physical therapist, where interprofessional interactions with people in a culturally competent manner, including patients, support personnel, supervisors, third-party payers, and other medical professionals, is a large part of their responsibilities. This course is developed in three topic sections to ensure students have the foundations for cultivating a therapeutic partnership with patients within a variety of healthcare settings: 1) foundations of engaged professionalism, 2) relationship skills in health communication, and 3) intervention-based communication approaches.

144673**Management Across the Lifespan: Aging Adult**

Subject: Catalog Nbr:
DPT 0756

2024 SUMR	Primary	Elizabeth Wonsetler-Jones	Elizabeth.Wonsetler-Jones@tufts.edu
2024 SUMR	Secondary	Aaron Embry	Aaron.Embry@tufts.edu

This course introduces the physiologic changes of aging and the sociologic and economic consequences of the aging population. Natural aging processes and how complicating factors such as pathology, fall risk, and comorbidities negatively impact the aging adult will be addressed. Students will problem solve examination and treatment issues relevant to the types of older clients seen in physical therapy clinical settings across the continuum of care. Course content will address health promotion and safety, evaluation and assessment, care planning and coordination across the care spectrum, interdisciplinary and team care, caregiver support, and healthcare systems and benefits as they relate to the aging adult.

144674**Cardiopulmonary Practice Management**

Subject: Catalog Nbr:

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DPT	0750			
	2024 SPRG	Primary	Neeti Pathare	Neeti.Pathare@tufts.edu
	2024 SPRG	Secondary	Dylan Macphail	Dylan.Macphail@tufts.edu
	2025 SPRG	Secondary	Elizabeth Wonsetler-Jones	Elizabeth.Wonsetler-Jones@tufts.edu

This course enhances the knowledge and skills of the student in the care of patients with cardiovascular and/or pulmonary impairments across the lifespan and across a variety of clinical settings. Students develop appropriate observation and clinical skills necessary for completing a thorough evaluation and formulating a comprehensive plan of care that considers relevant educational, social, economic and cultural factors. Students will integrate evidence-based practice in clinical-decision making processes.

144675	Physical Therapy Practice I			
	Subject:	Catalog Nbr:		
	DPT	0761		
<p>This course develops student examination, evaluation, and intervention skills during an 8-week mentored clinical experience. The student begins to communicate with patients/clients, family, and other professionals in healthcare and begins to appreciate the role of each team member. This is an integrated clinical experience which builds on the didactic and psychomotor courses within the curriculum. This clinical experience is the first practice experience where students are exposed to evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.</p>				

144676	Evidence-Based Practice II			
	Subject:	Catalog Nbr:		
	DPT	0721		
	2024 SUMR	Primary	Joshua Cleland	Joshua.Cleland@tufts.edu
	2024 SUMR	Secondary	Neeti Pathare	Neeti.Pathare@tufts.edu
<p>This course expands elements of applied research design and statistics that facilitates students to become intelligent consumers of scientific literature. This course also fosters critical inquiry including application of basic principles of evidence-based practice as they relate to current peer reviewed literature through dissection and discussion of literature with group-based projects analyzing the quality/rigor of current research.</p>				

144677	Management of Complex Patients			
	Subject:	Catalog Nbr:		
	DPT	0770		
	2024 SUMR	Primary	Carla Sabus	Carla.Sabus@tufts.edu
	2024 SUMR	Primary	Gabriele Moriello	Gabriele.Moriello@tufts.edu
<p>This course builds on the student's clinical decision-making skills from the practice management courses to address the needs of a medically complex patient across the continuum of care. This course will emphasize integration of clinical findings from medical screening, systems review, and tests and measures across the lifespan for patients with primary disease or comorbidities of the cardiovascular, endocrine, metabolic,</p>				

Course Bulletin

gastrointestinal, genital and reproductive, hematologic, hepatic and biliary, immune, integumentary, lymphatic, musculoskeletal, nervous respiratory, renal and urologic systems. Referral and consultation with other healthcare providers will be discussed. Onsite lab experiences are focused on the development and evaluation of patient management skills related to the examination, evaluation, diagnosis, prognosis and treatment of patients with medically complex conditions

144678	Management Across the Lifespan: Pediatrics			
Subject: DPT	Catalog Nbr: 0780			
	2024 SUMR	Primary	Jennifer Parent-Nichols	No Email on file.
	2024 SUMR	Secondary	Jason Cook	Jason.Cook@tufts.edu
Using a framework of normal development from birth to young adulthood, this course presents fundamental concepts for the physical therapy management of children and adolescents with musculoskeletal, neurological, and cardiopulmonary dysfunction. Topics include atypical developmental and associated impairments, functional limitations and participation restrictions. Topic of family centered care, advocacy, and assistive technologies are implicit in this course.				

144679	Diagnostic Imaging			
Subject: DPT	Catalog Nbr: 0790			
	2024 SPRG	Primary	Brandon Ness	Brandon.Ness@tufts.edu
	2024 SPRG	Secondary	Alexis Wright	Alexis.Wright@tufts.edu
	2024 SPRG	Secondary	Alicia O'Hara	No Email on file.
	2025 SPRG	Secondary	Anthony Carroll	Anthony.Carroll@tufts.edu
This course integrates concepts of diagnostic testing and imaging of the major systems of the body regions related to physical therapy practice. Specific content reviews diagnostic ultrasound, magnetic resonance imaging, computed tomography, nuclear medicine, radiographs, and selected medical diagnostic tests. Rationale and guidelines for examination selection are introduced, and clinical scenarios provide an emphasis on critical thinking regarding the utility of diagnostic imaging studies.				

144680	Advanced Therapeutic Interventions			
Subject: DPT	Catalog Nbr: 0810			
	2024 FALL	Secondary	Brandon Ness	Brandon.Ness@tufts.edu
This is a case-based course that expands on the students' critical thinking, clinical reasoning, and management of patients with human movement system dysfunctions. This course emphasizes a holistic, patient centered approach to exercise prescription and individualized adaptation of plans of care based on patient response. This course will review existing exercise paradigms and social determinants of health. Lab activities use case scenarios to challenge clinical reasoning for the development and progression of comprehensive treatment plans. The final OSCE will evaluate students for clinical practice with simulated patient encounters and content tied into the Primary Care course.				

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144681	Business Management Practices			
Subject: DPT	Catalog Nbr: 0814			
	2025 SPRG	Secondary	Brian McClenahan	Brian.Mcclenahan@tufts.edu
<p>This course provides an overview of practice management fundamentals and applies these principles to various aspects of leadership and business operations as they relate to the practice of physical therapy. Students will gain knowledge of health care management, leadership, organizational structures, clinical administration, and fiscal management as they relate to the practice of physical therapy. Students are exposed to general business principles and practical applications to help a healthcare practice or system build a strategic and sustained competitive advantage in the marketplace. There is a specific focus on managing human resources, understanding payer relationships, diagnostic coding, current procedural terminology, clinical productivity, and operating margin. The course will prepare students to be stewards of fiscal responsibility in the field of physical therapy.</p>				

144682	Primary Care			
Subject: DPT	Catalog Nbr: 0817			
	2024 FALL	Secondary	Anthony Carroll	Anthony.Carroll@tufts.edu
<p>This course aims to improve students' understanding and appreciation for the physical therapist as a primary care practitioner. Students explore the therapist's role as an interdependent practitioner working within a collaborative medical model. This course will include advanced screening methods for body systems pathology that masquerades as musculoskeletal pathology; advanced clinical decision making with regards to diagnostic imaging including appropriate and specific referral and interpretation of lab values and imaging results; advanced understanding of the effects, side effects, and impact of common medications and how they influence physical therapy management; and integration of injury prevention screening and telehealth services to improve delivery of care amongst those populations with barriers to healthcare system access. This course uses a case-based approach to prepare students to screen effectively for medical referral.</p>				

144683	Physical Therapy Practice II			
Subject: DPT	Catalog Nbr: 0821			
	2024 SPRG	Primary	Kimberly Tyler	Kimberly.Tyler@tufts.edu
	2024 SPRG	Primary	Anthony Carroll	Anthony.Carroll@tufts.edu
<p>This course advances the student's ability to perform examination, evaluation, and intervention skills during an 8-week mentored clinical experience. The student further develops the ability to communicate with patients/clients, family, and other healthcare professionals. This course emphasizes evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.</p>				

144684	Integrative Pain Sciences			
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Course Bulletin

Subject: DPT	Catalog Nbr: 0826	2025 SPRG	Secondary	Robin Galley	Robin.Galley@tufts.edu
<p>Built from contemporary models, this course reflects the interprofessional consensus of core competencies for prelicensure health professions education in patient management including the multidimensional nature of pain, pain assessment and measurement, collaborative approaches to management of pain, and clinical conditions. This course builds on the previous courses within the curriculum on the pain management domains and core competencies that were integrated within the body systems.</p>					

144685	Capstone Project I				
Subject: DPT	Catalog Nbr: 0840	2025 SPRG	Secondary	Alexis Wright	Alexis.Wright@tufts.edu
<p>This course is designed as a preparatory course in preparation for the National Physical Therapy Exam (NPTE). Students will engage in preparatory exams, as well as develop an NPTE study plan based on their results.</p>					

144686	Professional Rights and Responsibilities				
Subject: DPT	Catalog Nbr: 0833	2025 SPRG	Secondary	Robin Galley	Robin.Galley@tufts.edu
<p>This course develops students professionally and emotionally for physical therapy clinical practice, including roles as a lifelong learner, professional duty, integrity, accountability, and social responsibility. This course blends topics through case applications that explore communication, individual and cultural differences, professional behavior and abilities, ethics, legal issues, and risk management within patient care. Students will be exposed to a mock House of Delegates with a focus on student advocacy and community involvement.</p>					

144687	Physical Therapy Practice III				
Subject: DPT	Catalog Nbr: 0831	2024 SUMR	Primary	Kimberly Tyler	Kimberly.Tyler@tufts.edu
		2024 SUMR	Primary	Anthony Carroll	Anthony.Carroll@tufts.edu
<p>This course progresses students to entry-level patient management skills during a 15-week mentored clinical experience. The student refines the ability to communicate with patients/clients, family, and healthcare professionals. The student further develops patient management and clinical reasoning with an emphasis on evidence-based practice and interprofessional collaboration.</p>					

144777	Preparation for Clinical Practice				
Subject: PA	Catalog Nbr: 0290	2024 SUMR	Primary	Beth Buyea	Beth.Buyea@tufts.edu

Course Bulletin

The Preparation for Clinical Practice seminar is a multi-faceted course that encompasses callback days and inter-professional activities during the clinical year. In addition, it will include formative assessments in the fall semester of didactic year and throughout the clinical year. The culmination is a summative assessment (End of Curriculum Examination and OSCE) to include evaluation of foundational medical knowledge, history taking, physical examination, diagnosis, management of a patient complaint, and patient education.

144986	Physiology I	
	Subject:	Catalog Nbr:
	MBS	0216
Physiology I		

144987	Physiology II	
	Subject:	Catalog Nbr:
	MBS	0217
Physiology II		

145252	Basic Human Pathology	
	Subject:	Catalog Nbr:
	MBS	0218
<p>Pathology is the medical discipline that deals with the essential nature, causes, and development of abnormal conditions. Using various techniques, the pathologist strives to understand the mechanisms underlying the changes observed and provide a rational basis for clinical care and therapy. It serves as the bridge between the basic sciences and clinical medicine.</p> <p>Anatomical pathology deals mainly with structural changes caused by disease processes. Clinical pathology deals mainly with biochemical and functional changes caused by the disease process.</p> <p>The course focuses on anatomical pathology and will be utilizing images representing classical clinical, gross (macroscopic), and microscopic appearances of diseases. For selected diseases and conditions, discussions will cover the mechanisms of development, biochemical and structural alterations induced in the body's cells and organs, and the functional consequences of these changes.</p> <p>The first part of the course (General Pathology) deals with cells and tissues' reactions to abnormal stimuli and basic pathologic processes such as cell injury, inflammation, repair, and neoplasia. The second part of the course (Systemic Pathology) covers changes in organs and tissues responsible for disorders that involve these organs.</p>		

145253	Neuroscience	
	Subject:	Catalog Nbr:
	MBS	0238

Course Bulletin

This course will examine the basic principles of anatomy, physiology, and neurochemistry of the central and peripheral nervous systems. Topics will be covered to help develop an understanding of how neuronal communication underlies human brain function. The course will be taught as a mixture of lecture-based sessions and discussions of scientific journal articles on neurological cases. Lectures supplemented by discussion of clinical case studies will serve as an introduction to understanding of neurological disorders. Radiological images will be integrated where relevant within the course.

Specific topics covered will include gross brain and meninges, neuronal microenvironment, synaptic transmission, autonomic nervous system function, spinal reflexes, sensory processing, movement, sleep and wakefulness, hunger, thirst, caloric and body fluid homeostasis, emotion control, maintenance of balance, hearing, visual sensation and pertinent neurological disorders.

145612	Clinical Prevention and Population Health II			
Subject: DPT	Catalog Nbr: 0720			
<p>This course will examine the physical therapist's role in population health and health promotion relative to health equity, health disparities, health behavior change, and community engagement. Related topics will be discussed, including but not limited to population health in physical therapy practice; health inequities including structural racism and income inequality and the impact on access to healthcare and healthy lifestyles; strategies for implementing behavior change in the populations we serve; and principles of community advocacy. This course aims to assist in the development of clinicians who are equipped to impact societal health positively.</p>				

145613	Human Physiology			
Subject: DPT	Catalog Nbr: 0600			
2024 SUMR	Primary	Jennifer Bell	Jennifer.Bell@tufts.edu	
2024 SUMR	Secondary	Angela Gisselman	Angela.Gisselman@tufts.edu	
2024 SUMR	Secondary	Liana Wooten	Liana.Wooten@tufts.edu	
<p>This course provides the foundational knowledge related to physiology and pathophysiology. Key principles of cellular physiology and major organ systems—neuromuscular, cardiovascular, pulmonary, integumentary, gastrointestinal, renal, and endocrine—are reviewed. Physiologic principles necessary for functional movement and the associated effects of physical activity on health and wellness across the lifespan will be presented. This course introduces the pathogenesis of common conditions encountered by the physical therapist. This course also introduces pharmacologic principles, including an understanding of the pharmacotherapeutics, pharmacokinetics, and pharmacodynamic properties of common drug classifications and the impact on the major organ systems.</p>				

145614	Human Anatomy			
Subject: DPT	Catalog Nbr: 0601			
2024 SUMR	Primary	Jeremiah Tate	Jeremiah.Tate@tufts.edu	

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2024 SUMR	Secondary	Jeffrey Foucier	Jeffrey.Foucier@tufts.edu
2024 SUMR	Secondary	Melissa Burgemeister	Melissa.Burgemeister@tufts.edu

This course introduces foundational knowledge of gross anatomy and neuroanatomy. It explores clinical application of embryology, histology, and joint structure and function and the forces that affect human movement across the lifespan. Laboratory experiences use a variety of learning activities to solidify this foundational knowledge. This course addresses the content of the anatomical regions, including the cervical, thoracic, and lumbar spines, thorax, upper extremities, pelvis, and lower extremities. Course emphasis is on the neuromuscular and musculoskeletal anatomy.

145615	Professional Expectations			
Subject:	Catalog Nbr:			
DPT	0602			
2024 SUMR	Primary	Tara Dickson	No Email on file.	
2024 SUMR	Secondary	Tawna Wilkinson	Tawna.Wilkinson@tufts.edu	
<p>The course defines professional conduct and application of generic skills as they relate to the practice of physical therapy. Throughout this course, students explore the interprofessional roles and responsibilities of the healthcare team, including those of the physical therapist. This course highlights the importance of communication (verbal, nonverbal, and written), individual and cultural differences, professional behavior and abilities, ethics, legal issues, scope of practice, and responsibility for professional development. This course is designed to prepare students for the professional curriculum and clinical practice.</p>				

145616	Clinical Prevention and Population Health I			
Subject:	Catalog Nbr:			
DPT	0603			
2024 SUMR	Primary	Lydia Thurston	Lydia.Thurston@tufts.edu	
2024 SUMR	Secondary	Jennifer Bell	Jennifer.Bell@tufts.edu	
<p>This course examines the physical therapist's role in injury prevention, health, wellness, and fitness. Related content will be introduced including the social determinants of health, nutritional influences, sleep hygiene, fitness testing, and exercise prescription in a healthy population. An expanded worldview of the public health issues that impact physical therapy practice will be provided, and the unique role of physical therapists in promoting physical activity will be highlighted.</p>				

145617	Physical Therapy Fundamentals			
Subject:	Catalog Nbr:			
DPT	0605			
2024 FALL	Secondary	Edward Mulligan	Edward.Mulligan@tufts.edu	
<p>This course introduces fundamental physical therapy skills, patient management frameworks, and the clinical examination sequence used throughout the curriculum. Psychomotor skills that are foundational to clinical examination and evaluation are introduced, including but not limited to vital signs, patient positioning and handling skills, goniometry/range of motion, and muscle testing. Students will begin to develop patient interview and documentation skills.</p>				

Course Bulletin

145618	Clinical Neuroscience		
Subject:	Catalog Nbr:		
DPT	0606		
2024 FALL	Secondary	Lorenzo Casertano	Lorenzo.Casertano@tufts.edu
<p>This course explores the neuroscience of the movement system with emphasis on the neuroanatomical structures and neurophysiological functions of the motor, sensory, and autonomic systems that regulate movement. Lab activities include psychomotor performance and interpretation of tests and measures of the neurologic examination.</p>			

145619	Evidence-Based Practice I		
Subject:	Catalog Nbr:		
DPT	0607		
<p>This course introduces the foundation to general research and evidence-based principles by exploring research methodologies and applied statistics used in health care. The course introduces foundational concepts of scientific inquiry for clinicians with creating clinical questions, searches appropriate literature sources, and assesses the evidence quality.</p>			

145620	Movement Sciences		
Subject:	Catalog Nbr:		
DPT	0609		
<p>This course introduces the student to the fundamentals of movement science, offers a framework for understanding normal and abnormal movement, and includes concepts of kinesiology, neuroscience, physiology, motor control, and motor learning. The course integrates theory and basic principles of motor behavior, motor development, motor control, and motor learning as they relate to human movement and gait across the lifespan. Emphasis is on the integration of theory, structured movement analyses of activities performed in daily life, and the International Classification of Functioning, Disability, and Health (ICF) model to inform clinical decision making in physical therapist practice.</p>			

145621	Patient Centered Care		
Subject:	Catalog Nbr:		
DPT	0610		
2024 FALL	Secondary	Jennifer Bell	Jennifer.Bell@tufts.edu
<p>This course further explores the professional roles of physical therapists, demonstrating the APTA core values of accountability, compassion/caring, altruism, and self-reflection. The course is tailored specifically to the work of a physical therapist where critically conscious interactions, including those with patients, support personnel, supervisors, third-party payers, and other medical professionals are necessary. This course presents foundational content for cultivating a therapeutic partnership with patients and caregivers.</p>			

Course Bulletin

145622	Therapeutic Interventions			
Subject:	Catalog Nbr:			
DPT	0611			
2024 SPRG	Primary	Jeffrey Foucier	Jeffrey.Foucrier@tufts.edu	
2024 SPRG	Secondary	Benjamin Stern	Benjamin.Stern@tufts.edu	
2025 SPRG	Secondary	Liana Wooten	Liana.Wooten@tufts.edu	
<p>This course introduces foundational biomechanical and physiological principles related to therapeutic interventions. Principles and application of therapeutic exercise and healing response for the management of patients with pain, strength, and mobility impairments are presented. The course emphasizes current evidence and clinical decision-making to facilitate appropriate selection, instruction, and progression of interventions.</p>				

145623	Musculoskeletal Practice Management: Lower Quarter			
Subject:	Catalog Nbr:			
DPT	0613			
2024 SPRG	Primary	Linda Denney	Linda.Denney@tufts.edu	
2024 SPRG	Primary	Edward Mulligan	Edward.Mulligan@tufts.edu	
<p>This course initiates examination, evaluation, and intervention sequence of the neuromusculoskeletal system. This course provides the fundamentals of examination and intervention that will be utilized across the two-course series. This course emphasizes the clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the lower quarter of the body. The course concentrates on the application of critical thinking and psychomotor skills related to examination, and evidence-based interventions which emphasize patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan. This course initiates the development of critical thinking and reasoning strategies through clinical presentations and management.</p>				

145624	Neuromuscular Practice Management			
Subject:	Catalog Nbr:			
DPT	0615			
2024 SPRG	Primary	Kim Dao	k.dao@tufts.edu	
2024 SPRG	Primary	Lorenzo Casertano	Lorenzo.Casertano@tufts.edu	
2024 SPRG	Secondary	Amy Schlessman	Amy.Schlessman@tufts.edu	
<p>This course requires students to apply their knowledge of theoretical frameworks to guide the examination, evaluation, and management of individuals with movement dysfunction resulting from acquired conditions or injury of the central and peripheral nervous systems. Lab experiences allow students to build on their critical thinking and reasoning skills and apply knowledge of the movement system to develop and implement evidence-based, patient-centered plans of care.</p>				

145625	Integrative Pain Sciences			
Subject:	Catalog Nbr:			
DPT	0616			

Course Bulletin

2024 SPRG	Primary	Jeffrey Foucrier	Jeffrey.Foucrier@tufts.edu
2025 SPRG	Secondary	Benjamin Stern	Benjamin.Stern@tufts.edu
<p>This course is built from contemporary models and reflects the interprofessional consensus of core competencies for prelicensure health professions education in patient management including the multidimensional nature of pain, pain assessment and measurement, collaborative approaches to management of pain, and clinical conditions. This course builds on previous content within the curriculum and explores core competencies for integration within the body systems.</p>			

145626	Evidence-Based Practice II		
Subject: DPT	Catalog Nbr: 0608		
2024 SUMR	Primary	Benjamin Stern	Benjamin.Stern@tufts.edu
2024 SUMR	Primary	Edward Mulligan	Edward.Mulligan@tufts.edu
<p>This course expands elements of applied research design and statistics that facilitates students to become intelligent consumers of scientific literature. This course also fosters critical inquiry including application of basic principles of evidence-based practice as they relate to current peer reviewed literature through dissection and discussion of literature with group-based projects analyzing the quality/rigor of current research.</p>			

145627	Musculoskeletal Practice: Upper Quarter		
Subject: DPT	Catalog Nbr: 0614		
2024 SUMR	Primary	Linda Denney	Linda.Denney@tufts.edu
2024 SUMR	Primary	Edward Mulligan	Edward.Mulligan@tufts.edu
<p>This course continues the examination, evaluation, and intervention sequence of the neuromusculoskeletal system and builds upon the fundamentals of examination and intervention previously introduced. This course emphasizes the clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the upper quarter of the body. The course concentrates on the application of critical thinking and psychomotor skills related to examination and evidence-based interventions which emphasize patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan. This course continues the development of critical thinking and reasoning strategies through clinical presentations and management.</p>			

145628	Cardiopulmonary Practice Management		
Subject: DPT	Catalog Nbr: 0617		
2024 SUMR	Primary	Natalie O'Neal	Natalie.O_neal@tufts.edu
2024 SUMR	Primary	John Imundi	John.Imundi@tufts.edu
<p>This course enhances the knowledge and skills of the student in the care of patients with cardiovascular and/or pulmonary impairments across the lifespan and across a variety of clinical settings. Students develop appropriate observation and clinical skills necessary for completing a thorough evaluation and formulating a comprehensive plan of care that considers relevant educational, social, economic, and cultural factors.</p>			

Course Bulletin

Students will integrate evidence-based practice in clinical-decision making processes.

145629	Management Across the Lifespan: Aging Adult			
Subject:	Catalog Nbr:			
DPT	0618			
2024 SUMR	Primary	Natalie O'Neal	Natalie.O_neal@tufts.edu	
2024 SUMR	Secondary	Kim Dao	k.dao@tufts.edu	
<p>This course introduces the physiologic changes of aging and the sociologic and economic consequences of the aging population. Natural aging processes and how complicating factors such as pathology, fall risk, and comorbidities negatively impact the aging adult will be addressed. Students problem solve examination and treatment issues relevant to the types of older clients seen in physical therapy clinical settings across the continuum of care. Course content will address health promotion and safety, evaluation and assessment, care planning and coordination across the care spectrum, interdisciplinary and team care, caregiver support, and healthcare systems and benefits as they relate to the aging adult.</p>				

145630	Management Across the Lifespan: Pediatric Patient			
Subject:	Catalog Nbr:			
DPT	0619			
2024 SUMR	Primary	Tawna Wilkinson	Tawna.Wilkinson@tufts.edu	
2024 SUMR	Primary	Amy Schlessman	Amy.Schlessman@tufts.edu	
<p>Using a framework of normal development from birth to young adulthood, this course presents fundamental concepts for the physical therapy management of children and adolescents with musculoskeletal, neurological, and cardiopulmonary dysfunction. Topics include atypical developmental and associated impairments, functional limitations, and participation restrictions. The topics of family-centered care, advocacy, and assistive technologies are implicit in this course.</p>				

145631	Physical Therapy Practice I			
Subject:	Catalog Nbr:			
DPT	0650			
2024 FALL	Secondary	Lydia Thurston	Lydia.Thurston@tufts.edu	
2024 SPRG	Primary	Tara Dickson	No Email on file.	
<p>This course develops student examination, evaluation, and intervention skills during an 8-week mentored clinical education experience. The student begins to communicate with patients/clients, family, and other professionals in healthcare and begins to appreciate the role of each team member. This is an integrated clinical education experience which builds on the didactic and psychomotor courses within the curriculum. This clinical education experience is the first practice experience where students are exposed to evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.</p>				

145632	Management of the Complex Patient			
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Course Bulletin

Subject:	Catalog Nbr:			
DPT	0620			
2024 FALL	Secondary	Lydia Thurston		Lydia.Thurston@tufts.edu
<p>This course builds on the student's clinical decision-making skills from the practice management courses to address the needs of a medically complex patient across the continuum of care. This course will emphasize integration of clinical findings from medical screening, systems review, and tests and measures across the lifespan for patients with primary disease or comorbidities of the cardiovascular, pulmonary, musculoskeletal, neuromuscular, metabolic, and integumentary systems. Direct access, referral, consultation with other healthcare providers will be discussed. This course will also emphasize the therapist's role in managing patients with integumentary and lymphatic conditions.</p>				

145633	Primary Care			
Subject:	Catalog Nbr:			
DPT	0621			
<p>This course aims to improve students' understanding of the physical therapist's role as an interdependent primary care practitioner working within a collaborative medical model. Students will advance their application of clinical tools and decision-making processes to effectively and efficiently collect, evaluate, and communicate examination data while performing differential diagnosis and critical thinking on complex patient presentations. The course integrates concepts of diagnostic testing and imaging including rationale and guidelines for selection, and appropriate referral processes. Students demonstrate advanced screening techniques and clinical reasoning through case-based clinical scenarios.</p>				

145634	Clinical Prevention and Population Health II			
Subject:	Catalog Nbr:			
DPT	0604			
2024 SPRG	Primary	Amy Schlessman		Amy.Schlessman@tufts.edu
2024 SPRG	Secondary	Liana Wooten		Liana.Wooten@tufts.edu
2025 SPRG	Secondary	Kim Dao		k.dao@tufts.edu
<p>This course will examine the physical therapist's role in population health and health promotion relative to clinical prevention services, clinical practice, health systems, and health policy. Related topics will be discussed, including but not limited to health informatics, environmental health, and caring for vulnerable populations. Physical therapists have a role in prevention-related practices, including conducting screening tests for mental and behavioral health, lifestyle-associated behavior counseling and referral, identifying at-risk patients and populations, and knowledge of immunization and prevention medicine approaches. This course will also expand upon concepts of social determinants of health, prevention, and population health from previous courses. This course aims to assist in the development of clinicians who are equipped to impact societal health positively.</p>				

145635	Prosthetics and Orthotics			
Subject:	Catalog Nbr:			
DPT	0622			
2024 SPRG	Primary	Natalie O'Neal		Natalie.O_neal@tufts.edu

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This course provides a foundation for decision making and interprofessional practice relating to the recommendation for and use/modification of orthoses and prostheses in physical therapy practice. Concepts of orthotic and prosthetic device materials, design, fabrication, and technology are introduced. The course will emphasize patient-specific physical therapy examination, assessment, plan of care development and modification, and outcomes. Principles of gait analysis, limb amputation, wearing/fitting of orthoses and prostheses, education, the importance of therapeutic alliance and interprofessional collaboration, and the psychosocial considerations of the patient with orthotic and prosthetic devices are implicit in this course.

145636	Advanced Therapeutic Interventions			
Subject: DPT	Catalog Nbr: 0612			
2024 SPRG	Primary	Angela Gisselman	Angela.Gisselman@tufts.edu	
2025 SPRG	Secondary	Benjamin Stern	Benjamin.Stern@tufts.edu	
2025 SPRG	Secondary	Liana Wooten	Liana.Wooten@tufts.edu	
<p>This is a case-based course that expands on the students' critical thinking, clinical reasoning, and management of patients with human movement system dysfunctions. This course emphasizes a holistic, patient centered approach to exercise prescription and individualized adaptation of plans of care based on patient response. This course will review existing exercise paradigms and social determinants of health along with pharmaceuticals and nutraceuticals as interventions. Lab activities use case scenarios to challenge clinical reasoning for the development and progression of comprehensive treatment plans.</p>				

145637	Business Management Practices			
Subject: DPT	Catalog Nbr: 0623			
2024 SPRG	Primary	Tara Dickson	No Email on file.	
2024 SPRG	Secondary	Amy Schlessman	Amy.Schlessman@tufts.edu	
2025 SPRG	Secondary	Edward Mulligan	Edward.Mulligan@tufts.edu	
<p>This course provides an overview of practice management fundamentals and applies these principles to various aspects of leadership and business operations as they relate to the practice of physical therapy. Students will gain knowledge of health care management, leadership, organizational structures, clinical administration, and fiscal management as they relate to the practice of physical therapy. Students are exposed to general business principles and practical applications to help a healthcare practice or system build a strategic and sustained competitive advantage in the marketplace. There is a specific focus on managing human resources, understanding payer relationships, diagnostic coding, current procedural terminology, clinical productivity, and operating margin. The course will prepare students to be stewards of fiscal responsibility in the field of physical therapy.</p>				

145638	Physical Therapy Practice II			
Subject: DPT	Catalog Nbr: 0651			
2024 SUMR	Primary	Tara Dickson	No Email on file.	
<p>This course advances the student's ability to perform examination, evaluation, and intervention skills during a</p>				

Course Bulletin

9-week mentored clinical education experience. The student further develops the ability to communicate with patients/clients, family, and other healthcare professionals. This clinical education experience emphasizes evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.

145639	Physical Therapy Practice III			
Subject:	Catalog Nbr:			
DPT	0652			
2024 FALL	Primary	Tara Dickson	No Email on file.	
2024 FALL	Secondary	Lydia Thurston	Lydia.Thurston@tufts.edu	
<p>This course progresses students to entry-level patient management skills during the 14-week mentored clinical education experience. The student refines the ability to communicate with patients/clients, family, and healthcare professionals. This clinical education experience develops advanced evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional part of an interprofessional collaborative team.</p>				

145640	Professional Rights and Responsibilities			
Subject:	Catalog Nbr:			
DPT	0624			
2024 SUMR	Primary	Jeffrey Foucrier	Jeffrey.Foucrier@tufts.edu	
2024 SUMR	Secondary	Melissa Burgemeister	Melissa.Burgemeister@tufts.edu	
<p>This course develops students professionally and emotionally for physical therapy clinical practice, including roles as a lifelong learner, professional duty, integrity, accountability, leadership, and social responsibility. This course blends topics through case applications that explore communication, professional behavior and abilities, ethics, legal issues, and risk management within patient care. Content will also focus on leadership development, student advocacy, and community involvement.</p>				

145641	Capstone			
Subject:	Catalog Nbr:			
DPT	0660			
2024 SUMR	Secondary	Tawna Wilkinson	Tawna.Wilkinson@tufts.edu	
<p>This course integrates and applies cumulative knowledge gained from all previous didactic courses and clinical education experiences. This course is designed as a comprehensive reflection of student professional growth over the duration of the program. Students will engage in four primary modules including: National Physical Therapy Exam preparation and Practice Exam and Assessment Tool; Resume project; 5-year professional development plan; and development of an "I Am" Statement Video reflective of the APTA Core Values and Tufts DPT Core Values.</p>				

146466	Medical Immunology			
Subject:	Catalog Nbr:			

Course Bulletin

MBS 0304

This course describes the cells, tissues, organs, and molecules that are responsible for protecting the body against infectious disease. The basic science content (first half) focusses on innate and adaptive host defense mechanisms. Topics include the origins and functions of immune cells, the complement system, and specific immunity mediated by antibodies (humoral immunity) and T lymphocytes (cell-mediated immunity). Sessions are presented to discuss antibody structure and function, antibody genetics and B-cell development, T-cell differentiation and activation, cellular cooperation, and control of the immune response. The second half of the course allows students to apply their foundational knowledge of immune function to important clinical areas. These areas include vaccines, allergy, hypersensitivity, autoimmune disease, organ transplantation, tumor immunology, and immunodeficiency diseases. The overall course objectives are to: introduce students to the key concepts and unique biology of the immune system; and, teach immunological mechanisms involved in the pathophysiology and prevention/treatment of diseases of major clinical importance.

*Credits earned for this course will not transfer to the Master of Science in Biomedical Sciences program offered by Tufts University School of Medicine.

146469	Human Anatomy				
Subject:	Catalog Nbr:				
DPT	0500				
2024 FALL	Secondary	Shefali Christopher	Shefali.Christopher@tufts.edu		
2024 FALL	Secondary	Michael Clarke	Michael.Clarke@tufts.edu		
<p>This course introduces foundational knowledge of gross anatomy and neuroanatomy. It explores clinical application of embryology, histology, and joint structure and function and the forces that affect human movement across the lifespan. Laboratory experiences use a variety of learning activities to solidify this foundational knowledge. This course addresses the content of the anatomical regions, including the cervical, thoracic, and lumbar spines, thorax, upper extremities, pelvis, and lower extremities. Students will be introduced to principles of diagnostic imaging which will be used as one way to study anatomical structures in the course. Course emphasis is on the neuromuscular and musculoskeletal anatomy.</p>					

146470	Human Physiology				
Subject:	Catalog Nbr:				
DPT	0501				
2024 FALL	Secondary	William Mcgehee	William.Mcgehee@tufts.edu		
<p>This course provides the foundational knowledge related to physiology and pathophysiology. Key principles of cellular physiology and major organ systems - neuromuscular, cardiovascular, pulmonary, integumentary, gastrointestinal, renal, and endocrine - are reviewed. Physiologic principles necessary for functional movement and the associated effects of physical activity on health and wellness across the lifespan will be presented. This course introduces the pathogenesis of common conditions encountered by the physical therapist. This course also introduces pharmacologic principles, including an understanding of the pharmacotherapeutics, pharmacokinetics, and pharmacodynamic properties of common drug classifications and the impact on the major organ systems.</p>					

Course Bulletin

146471	Physical Therapy Fundamentals			
Subject:	Catalog Nbr:			
DPT	0502			
2024 FALL	Secondary	Kathryn Sawyer	Kathryn.Sawyer@tufts.edu	
2024 FALL	Secondary	Chandi Edmonds	Chandi.Edmonds@tufts.edu	
<p>This course introduces fundamental physical therapy skills including the clinical examination sequence used throughout the curriculum. Skills that are foundational to clinical examination and evaluation are introduced, including but not limited to vital signs, infection control, goniometry/range of motion, and muscle testing. Students will begin to develop patient interview and documentation skills. Students also gain foundational knowledge and skills related to basic functional mobility (e.g., patient positioning, bed mobility, transfers, gait, and use of assistive devices).</p>				

146472	Professional Expectations			
Subject:	Catalog Nbr:			
DPT	0503			
2024 FALL	Secondary	Suzanne Trotter	Suzanne.Trotter@tufts.edu	
<p>The course defines professional conduct and application of generic skills as they relate to the practice of physical therapy. Throughout this course, students explore the interprofessional roles and responsibilities of the healthcare team, including those of the physical therapist. Introduction to the Patient Management Model, Clinical Reasoning Framework, and the International Classification of Functioning, Disability, and Health (ICF) models are also introduced. This course highlights the importance of communication (verbal, nonverbal, and written), authenticity and belonging, individual and cultural differences, professional behavior and abilities, ethics, legal issues, scope of practice, and responsibility for professional development. This course is designed to prepare students for the professional curriculum and clinical practice.</p>				

146473	Movement Science			
Subject:	Catalog Nbr:			
DPT	0504			
2024 FALL	Secondary	Evan Papa	Evan.Papa@tufts.edu	
<p>This course introduces the student to the fundamentals of movement science, offers a framework for understanding normal and abnormal movement, and includes concepts of kinesiology, functional anatomy, and normal (non-pathological) movement. The course integrates theory and basic principles of motor behavior, motor development, motor control, and motor learning as they relate to human movement across the lifespan. Emphasis is on the integration of theory and structured movement analyses of activities performed in daily life. Students will apply the International Classification of Functioning, Disability, and Health (ICF) model in the analysis of movement.</p>				

146474	Patient Centered Care			
Subject:	Catalog Nbr:			
DPT	0505			
2025 SPRG	Secondary	Kirsten Potter	Kirsten.Potter@tufts.edu	

Course Bulletin

This course further explores the professional roles of physical therapists, demonstrating the APTA core values of accountability, compassion/caring, altruism, and self-reflection. The course is tailored specifically to the work of a physical therapist where critically conscious interactions, including those with patients, support personnel, supervisors, third-party payers, and other medical professionals are necessary. Concepts of collaborative health care, via a shared decision-making model, will be introduced. This course presents foundational content for cultivating a therapeutic partnership with patients and caregivers.

146475	Therapeutic Interventions			
	Subject:	Catalog Nbr:		
	DPT	0506		
	2025 SPRG	Secondary	Sarah Gilliland	Sarah.Gilliland@tufts.edu
	2025 SPRG	Secondary	William Mcgehee	William.Mcgehee@tufts.edu
<p>This course introduces the foundational principles of exercise physiology and the biopsychosocial approach related to therapeutic interventions. Principles and application of therapeutic exercise and healing response for the management of patients with pain, strength and mobility impairments are presented. Interventions to improve movement and pain will be covered, including selected therapeutic exercise, selected physical agents, and patient/client education. The course emphasizes current evidence and clinical decision-making to facilitate appropriate selection, instruction, and progression of interventions.</p>				

146476	Advanced Therapeutic Interventions			
	Subject:	Catalog Nbr:		
	DPT	0507		
<p>This is a case-based course that expands on the students' critical thinking, clinical reasoning, and management of patients with human movement system dysfunctions. This course emphasizes a holistic, patient centered approach to exercise prescription and individualized adaptation of plans of care based on patient response. This course will review existing exercise paradigms and social determinants of health along with pharmaceuticals and nutraceuticals as interventions. Lab activities use case scenarios to challenge clinical reasoning for the development and progression of comprehensive treatment plans.</p>				

146477	Evidence-Based Practice I			
	Subject:	Catalog Nbr:		
	DPT	0508		
	2025 SPRG	Secondary	Evan Papa	Evan.Papa@tufts.edu
<p>This course provides a foundation to general research and evidence-based principles by exploring research methodologies and applied statistics used in health care. The course introduces foundational concepts of scientific inquiry for clinicians with creating clinical questions, searching appropriate literature sources, and assessing the evidence quality.</p>				

146478	Evidence-Based Practice II			
	Subject:	Catalog Nbr:		

Course Bulletin

DPT	0509
<p>This course expands elements of applied research design and statistics that facilitates students becoming intelligent consumers of scientific literature. This course also fosters critical inquiry including application of basic principles of evidence-based practice as they relate to current peer reviewed literature through dissection and discussion of literature with group-based projects analyzing the quality/rigor of current research.</p>	

146479	Clinical Neuroscience		
Subject: DPT	Catalog Nbr: 0510	2025 SPRG	Secondary
	Cara Carramusa	Cara.Carramusa@tufts.edu	
<p>This course explores the neuroscience of the movement system, with emphasis on the neuroanatomical structures and neurophysiological functions of the motor, sensory, and autonomic systems that regulate movement. Students study the relationship of neuroanatomic structure and physiologic functioning to movement and the neurologic examination, to prepare students for future clinical neurologic courses.</p>			

146480	Musculoskeletal Practice: Lower Quarter		
Subject: DPT	Catalog Nbr: 0511	2025 SPRG	Secondary
	Rachel Herron	No Email on file.	
<p>This course, the first in a series of two, is designed to introduce students to the concepts underlying the physical therapy management of individuals with movement dysfunction resulting from musculoskeletal conditions. The clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the lower quarter and lumbar spine are emphasized. Clinical reasoning and psychomotor skills related to examination and evidence-based interventions, emphasizing patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan are highlighted. Students develop their critical reasoning strategies through application of the ICF model.</p>			

146481	Musculoskeletal Practice: Upper Quarter		
Subject: DPT	Catalog Nbr: 0512		
<p>In this course, students deepen their understanding and skills of the physical therapy management for patients with musculoskeletal conditions. The clinical application of biomechanics, functional movement, and examination principles for neuromusculoskeletal disorders specific to the upper quarter and cervical and thoracic spine are emphasized. Clinical reasoning and psychomotor skills related to examination and evidence-based interventions, emphasizing patient education, therapeutic exercise, and manual physical therapy in a patient-centered approach across the lifespan are highlighted. Students further their critical reasoning strategies as they apply prior knowledge, including the ICF, related to musculoskeletal physical therapist practice to patients with upper quarter and cervical spine conditions.</p>			

Course Bulletin

146482	Neuromuscular Practice Management I
Subject: DPT	Catalog Nbr: 0513
<p>This course, the first in a series of two, is designed to introduce students to the concepts underlying the physical therapy management of individuals with movement dysfunction resulting from acquired conditions or injury of the central and peripheral nervous systems. Students will study the pathology, medical/surgical management, and physical therapy examination, evaluation, diagnosis, and prognosis for patients with common neurologic conditions. Case study methodology emphasizing evidence-based practice helps the student develop the necessary competencies for physical therapy practice. Lab experiences allow students to build on their clinical reasoning skills and apply knowledge of the movement system to plan and implement the physical therapy examination in accordance with the ICF model.</p>	

146483	Neuromuscular Practice Management II
Subject: DPT	Catalog Nbr: 0514
<p>This course, the second in a series of two, focuses on intervention for individuals with movement dysfunction resulting from acquired conditions or injury of the central and peripheral nervous systems. Students will apply knowledge from Clinical Neuroscience and Neuromuscular Practice Management I as they design and implement plans of care for patients with common neurologic conditions. Case study methodology emphasizing evidence-based practice helps the student develop the necessary competencies for physical therapy practice. Lab experiences allow students to build on their clinical reasoning skills and apply knowledge of the movement system to develop and implement evidence-based, patient-centered plans of care.</p>	

146484	Cardiopulmonary Practice Management
Subject: DPT	Catalog Nbr: 0515
<p>This course enhances the knowledge and skills of the student in the care of patients with cardiovascular and/or pulmonary impairments across the lifespan and across a variety of clinical settings. Students will develop appropriate observation, clinical reasoning, and psychomotor skills necessary for completing a thorough examination and formulating a comprehensive plan of care that considers relevant educational, social, economic, and cultural factors. Students will build on their knowledge of exercise physiology as they integrate evidence-based practice in clinical-decision making processes.</p>	

146485	Clinical Prevention and Population Health I
Subject: DPT	Catalog Nbr: 0516
<p>This course examines the physical therapist's role in injury prevention, health, wellness, and fitness. Related content will be introduced including the social determinants of health, nutritional influences, sleep hygiene, fitness testing, and exercise prescription in a healthy population. An expanded worldview of the public health issues that impact physical therapy practice will be provided, and the unique role of physical therapists in</p>	

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promoting physical activity will be highlighted.

146486	Clinical Prevention and Population Health II
Subject: DPT	Catalog Nbr: 0517
<p>This course will examine the physical therapist's role in population health and health promotion relative to health equity, health disparities, health behavior change, and community engagement. Related topics will be discussed, including but not limited to population health in physical therapy practice; service models; health inequities including structural racism and income inequality and the impact on access to healthcare and healthy lifestyles; strategies for implementing behavior change in the populations we serve; and principles of community advocacy. This course aims to assist in the development of clinicians who are equipped to impact societal health positively.</p>	

146487	Management Across the Lifespan: Pediatrics
Subject: DPT	Catalog Nbr: 0518
<p>Using a framework of normal development from birth to young adulthood, and building on motor development concepts previously taught, this course presents fundamental concepts for the physical therapy management of children and adolescents with musculoskeletal, neurological, and cardiopulmonary dysfunction. Topics include atypical developmental and associated impairments, functional limitations, and participation restrictions. The topics of family-centered care, advocacy, and assistive technologies are implicit in this course.</p>	

146488	Management Across the Lifespan: Aging Adults
Subject: DPT	Catalog Nbr: 0519
<p>This course introduces the physiologic changes of aging and the sociologic and economic consequences of the aging population. Natural aging processes and the role of complicating factors (such as pathology, fall risk, and comorbidities) that negatively impact the aging adult will be addressed. Students apply the ICF and patient management models to older clients seen in physical therapy clinical settings across the continuum of care. Course content will also address health promotion and safety, care planning and coordination across the care spectrum, interdisciplinary and team care, caregiver support, end of life considerations, and healthcare systems and benefits as they relate to the aging adult.</p>	

146489	Prosthetics and Orthotics
Subject: DPT	Catalog Nbr: 0520
<p>This course provides a foundation for decision making and interprofessional practice relating to the recommendation for and use/modification of orthoses and prostheses in physical therapy practice. Concepts of orthotic and prosthetic device materials, design, fabrication, and technology are introduced. Students will</p>	

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apply the patient management model when working with patients who use orthotic or prosthetic devices. Principles of gait analysis, limb amputation, wearing/fitting of orthoses and prostheses, education, the importance of therapeutic alliance and interprofessional collaboration, and the psychosocial considerations of the patient with orthotic and prosthetic devices are implicit in this course.

146490	Physical Therapy Practice I
Subject: DPT	Catalog Nbr: 0521
<p>This course develops student examination, evaluation, diagnosis, prognosis, and intervention decision-making and psychomotor skills during an 8-week mentored clinical education experience. The student begins to communicate with patients/clients, family, and other professionals in healthcare and begins to appreciate the role of each team member. This is an integrated clinical education experience which builds on the didactic and psychomotor courses within the curriculum. This clinical education experience is the first practice experience where students are exposed to evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.</p>	

146491	Physical Therapy Practice II
Subject: DPT	Catalog Nbr: 0522
<p>This course advances student examination, evaluation, diagnosis, prognosis, and intervention decision-making and psychomotor skills during a 9-week mentored clinical education experience. The student further develops the ability to communicate with patients/clients, family, and other healthcare professionals. This clinical education experience emphasizes evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional as part of an interprofessional collaborative team.</p>	

146492	Physical Therapy Practice III
Subject: DPT	Catalog Nbr: 0523
<p>This course progresses students to entry-level patient management skills during the 14-week mentored clinical education experience. The student refines the ability to communicate with patients/clients, family, and healthcare professionals. This clinical education experience develops advanced evidence-based patient management and clinical reasoning skills as an adult learner and a healthcare professional part of an interprofessional collaborative team.</p>	

146493	Management of Complex Patients
Subject: DPT	Catalog Nbr: 0524
<p>This course builds on the student's clinical decision-making skills from the practice management courses to address the needs of a medically complex patient across the continuum of care. This course will emphasize integration of clinical findings from medical screening, systems review, and tests and measures across the</p>	

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lifespan for patients with primary disease or comorbidities of the cardiovascular, endocrine, metabolic, gastrointestinal, genital and reproductive, hematologic, hepatic and biliary, immune, integumentary, lymphatic, musculoskeletal, nervous, respiratory, renal and urologic systems. Referral and consultation with other healthcare providers will be discussed. Onsite lab experiences are focused on the development and evaluation of patient management skills related to the examination, evaluation, diagnosis, prognosis, and treatment of patients with medically complex conditions.

146494	Primary Care
Subject: DPT	Catalog Nbr: 0525
<p>This course aims to improve the student's understanding of the physical therapist's role as an interdependent primary care practitioner working within a collaborative medical model. This course will include advanced screening methods for body systems pathology that masquerades as musculoskeletal pathology; advanced clinical decision making with regards to diagnostic imaging including appropriate and specific referral and interpretation of lab values and imaging results; advanced understanding of the effects, side effects, and impact of common medications and how they influence physical therapy management; and integration of injury prevention screening and telehealth services to improve delivery of care amongst those populations with barriers to healthcare system access. This course uses a case-based approach to prepare students to screen effectively for medical referral.</p>	

146495	Business Management Practices
Subject: DPT	Catalog Nbr: 0526
<p>This course provides an overview of practice management fundamentals and applies these principles to various aspects of leadership and business operations as they relate to the practice of physical therapy. Students will gain knowledge of health care management, leadership, organizational structures, clinical administration, and fiscal management as they relate to the practice of physical therapy. Students are exposed to general business principles and practical applications to help a healthcare practice or system build a strategic and sustained competitive advantage in the marketplace. There is a specific focus on managing human resources, understanding payer relationships, diagnostic coding, current procedural terminology, clinical productivity, and operating margin. The course will prepare students to be stewards of fiscal responsibility in the field of physical therapy.</p>	

146496	Integrative Pain Science
Subject: DPT	Catalog Nbr: 0527
<p>Built from contemporary models, this course reflects the interprofessional consensus of core competencies for prelicensure health professions education in patient management including the multidimensional nature of pain, pain assessment and measurement, collaborative approaches to management of pain, and clinical conditions. This course builds on the previous courses within the curriculum on the pain management domains and core competencies that were integrated within the body systems.</p>	

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146497	Capstone
Subject: DPT	Catalog Nbr: 0528
<p>This course integrates and applies cumulative knowledge gained from all previous didactic courses and clinical education experiences. This course is designed as a comprehensive reflection of student professional growth over the duration of the program. Students will engage in four primary modules including: National Physical Therapy Exam preparation and Practice Exam and Assessment Tool; Resume project; 5-year professional development plan; and development of an “I Am” Statement Video reflective of the APTA Core Values and Tufts DPT Core Values.</p>	

146498	Professional Rights and Responsibilities
Subject: DPT	Catalog Nbr: 0529
<p>This course develops students professionally and emotionally for physical therapy clinical practice, including roles as a lifelong learner, professional duty, integrity, accountability, and social responsibility. This course blends topics through a mock House of Delegates, case applications that explore communication, individual and cultural differences, professional behavior and abilities, ethics, legal issues, and risk management within patient care. Content will also focus on leadership development, student advocacy, and community involvement.</p>	

146841	Clinical Reasoning Workshop
Subject: PA	Catalog Nbr: 0226
2024 FALL	Primary Rayne Loder
	Rayne.Loder@tufts.edu
<p>This workshop-based course will focus on the development and application of clinical reasoning skills, including differential diagnosis, diagnostic work-up, and patient-centered management plan development. Students will engage with clinical cases each week through a combination of small-group work and classroom discussions. Weekly assignments will ensure preparation for sessions and reflection of skill development. The knowledge, skills, and abilities developed in this course will prepare students to transition from the classroom to the clinical learning environment.</p>	

146887	Capstone Project II
Subject: DPT	Catalog Nbr: 0841
<p>This course is designed as a culmination of both didactic and clinical coursework. Students will reflect on personal growth and will develop a plan for continued leadership in the profession. Students will engage in four primary modules including: National Physical Therapy Exam preparation and Practice Exam and Assessment Tool; resume project; 5-year professional development plan; and development of a “My Tufts Video” reflective of the APTA Core Values and Tufts DPT Core Values.</p>	

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146975	Laboratory Techniques
Subject: MBS	Catalog Nbr: 0239
<p>Mastering the underlying laboratory techniques is imperative for the development of vaccines targeting both human and veterinary pathogens. This hands-on workshop eschews traditional lectures in favor of dedicated laboratory time. Participants will immerse themselves in practical exercises, honing their skills under expert guidance. From culturing E. coli to assessing immune responses, basic aspects of vaccine development will be explored through active experimentation. This experiential approach fosters a deeper understanding of the intricate processes involved in vaccine research, equipping participants with invaluable expertise to tackle real-world challenges in the field of pre-clinical drug development.</p>	