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# PHYSICAL THERAPY

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Selected expert physical therapists from the community are invited to campus to work with students in the on-site campus clinics as well as to augment and enrich the curriculum by presenting specialized information in particular courses.

## About the Program

The Physical Therapy program is a post-baccalaureate graduate program leading to a Doctor of Physical Therapy degree (DPT). The program is designed to educate an entry-level physical therapist. That is, the graduate student studies to enter the profession rather than to become a specialist within the profession.

A baccalaureate degree is prerequisite for enrolling in the Doctor of Physical Therapy Program. Diversity of educational background is desirable among potential physical therapists. A broad-based undergraduate education is an integral part of physical therapy education. Any undergraduate degree may lead to the successful study of physical therapy, and undergraduates are encouraged to follow their passion in selecting a major as a strong academic record is required for successful application to the PT program. Students must also demonstrate appropriate mastery of the prerequisite courses by passing each course with a grade of B (3.0) or better.

Complete information on the admission requirements and process can be found on the School of Physical Therapy web page ([pugetsound.edu/pt](http://pugetsound.edu/pt)).

Please note that many more applications are received for each class than there are spaces available and that admission to the University of Puget Sound does not guarantee admission to the School of Physical Therapy. However, applicants who have been or who will be granted an undergraduate degree from Puget Sound and who are competitive with in the applicant pool are offered admission prior to transfer students.

Degree completion requirements for the Doctor of Physical Therapy as well as course offerings and sequence for the DPT are described in the Graduate Programs Bulletin and on the School of Physical Therapy webpage.

The Physical Therapy program does not offer undergraduate courses; however, undergraduates interested in physical therapy may benefit from OT 101, Introduction to Allied Health Professions.

## General Information

### History

The Physical Therapy Program at Puget Sound was established in 1975 with the aid of funds from Public Health Services, Bureau of Health, Education, and Welfare and joined the Occupational Therapy Program (established 1944) to form the School of Occupational Therapy and Physical Therapy. In 2014 the School of Physical Therapy and the School of Occupational Therapy were established as separate entities. The Physical Therapy Program has enjoyed continuous accreditation. Consistent with the guidelines of the American Physical Therapy Association, the program began offering the Master of Physical Therapy degree in 1987, superseded by the Doctor of Physical Therapy in 2001.

### Philosophy

Physical therapists function in a health care environment that is dynamic and changing. Indeed, the knowledge base underlying the practice of physical therapy is constantly evolving and growing. The physical therapy student must be grounded in the fundamental knowledge, skills, and attitudes required for the practice of physical therapy.

PT students must also develop a strong foundation for understanding and using methods of discovering knowledge, evaluating new knowledge, and translating it into useful technology and practice. PTs must understand the behavior of human beings in light of historical, social, and cultural studies. Professionals in any field should have the ability to think logically and analytically, communicate clearly and effectively, and be intellectually autonomous.

Written and oral communication are foundational to the delivery of health care and education of the community. Through written articulation and oral presentation of concepts, the student clarifies understanding and learns means of expression that benefit not only the individual but the profession.

Physical therapists must learn to collaborate with other health care professionals to optimize both patient care and critical inquiry. Graduates will be prepared to function as independent practitioners collaborating within the healthcare environment.

### Student Body

Each year the School of Physical Therapy admits 36 doctoral degree students. These students come from a variety of backgrounds and educational experiences, from throughout the U.S. and internationally. The Student Physical Therapy Association and Student Association for Multidimensional Immersion are active on campus.

### Accreditation

The Physical Therapy Program at the University of Puget Sound is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: [accreditation@apta.org](mailto:accreditation@apta.org); website: [capteonline.org](http://capteonline.org). Accreditation qualifies the physical therapy graduate to take the National Physical Therapy Licensure Exam (NPTE) administered by the Federation of State Boards of Physical Therapy (FSBPT), [fsbpt.org](http://fsbpt.org). Upon successful completion of this exam, an individual will be licensed to practice physical therapy in any state. (Note that a felony conviction may affect a graduate's ability to sit for the NPTE and obtain a license to practice physical therapy.)

## Statement of Purpose

The mission of the School of Physical Therapy at the University of Puget Sound is to prepare students at the clinical doctoral level for entry into the physical therapy profession. Our presence on a liberal arts campus underscores our belief that the development of clinician scholars is a natural extension of the values of critical analysis, sound judgment, active inquiry, communication, and apt expression. Through a careful blending of rigorous academic work and mentored clinical practice, our program seeks to prepare clinician scholars who are leaders in informed, ethical and professional practice, and community engagement.

- Goal 1** Prepare graduates to practice physical therapy in an ethical, safe, and efficacious manner.
- Goal 2** Engage in community activities that promote health and prevent illness or disability.
- Goal 3** Promote scholarly inquiry and lifelong learning.

## Design of Curriculum

The University of Puget Sound Physical Therapy Program embraces the concept that physical therapy embodies scientific and empirical knowledge to explain human motion disorders, and that such knowledge makes physical therapists the appropriate practitioners to develop interventions to restore motion homeostasis, or enhance adaptation to disability based on the results of systematic patient examination. The curriculum is designed to teach the evaluation and intervention skills that are unique to the practice of physical therapy. Students also learn to identify professional boundaries, gain an appreciation of coalition building with other health care providers in order to optimize patient care, and become discerning consumers of the professional literature. Similarly, students develop the capacity for autonomous decision-making in preparation for a professional environment in which information is continually evolving. All courses provide opportunities to develop articulate written and oral communication skills. Graduates will be prepared to function as independent practitioners collaborating within the healthcare environment.

The professional portion of the program is sequentially integrated. During the first year of academic coursework the student does intensive work in the areas of musculoskeletal anatomy and kinesiology, neurophysiology, cardiopulmonary function, and other foundations of human motor function. Building on this foundation during the second year of study, the student focuses on the theory and foundation, then the techniques of clinical practice. The second-year student applies this new knowledge treating patients in the on-site teaching clinic under close supervision by the program faculty and clinical instructors. In the summer following the second year, the student completes an off-site clinical internship. In the fall of the third year, the student takes capstone courses that require integration and critical analysis while treating patients in the on-site teaching clinic, and completes advanced clinical electives in areas of special interest. The final semester of the program is made up entirely of an internship experience, which takes place throughout the western United States. Sequentially integrated, cumulative explorations of critical inquiry, professional writing, and professional communication including instructional methodology are woven through the program.

## Physical Therapy Program Student Learning Outcomes

Upon graduation, students are expected to:

1. Think logically, analytically and critically and employ those skills in clinical decision making related to patient management based on current best evidence.
2. Perform comprehensive examinations/evaluations of individuals with physical or movement related disorders and recognize those patients that require consultation or collaboration with other health care professionals.
3. Contribute to a professional working environment by actively engaging in critical inquiry.
4. Contribute to society by engaging in activities that promote health and prevent illness or disability.
5. Adhere to the principles stated in the American Physical Therapy Association Core Values and Code of Ethics in all aspects of physical therapy practice.

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## DOCTOR OF PHYSICAL THERAPY

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The Physical Therapy program leads to the Doctor of Physical Therapy degree. The program prepares candidates for entry-level positions as practicing physical therapists. Physical therapists practice as independent practitioners in the health care environment.

### Degree Requirements

Degree requirements are established by the faculty on recommendation from the Director of Graduate Study and the Academic Standards Committee.

1. An undergraduate degree must be cleared and posted to the academic record by the time of enrollment.
2. All courses required for physical therapy must be completed with a grade of C or better. The PT courses are listed below in the course sequence. In addition, students must receive a passing grade for 2 semesters of PT integrated clinical experiences and 2 full time clinical experiences.
3. PT integrated clinical experiences require the student to complete the equivalent of 5 1/2 weeks of work in the on-site clinic. PT full-time clinical experiences require 32 weeks of work under supervision of licensed physical therapists in clinical facilities that hold an Extended Campus Agreement with the Physical Therapy Program. To be eligible to participate in off-campus clinical experiences, students must satisfactorily complete all prerequisite coursework and demonstrate appropriate professional behavior. In addition, the student must undergo annual criminal background checks through *certifiedbackground.com* prior to placement in off-campus clinical experiences. Students whose criminal background checks are deemed unsatisfactory may be denied access to clinical experiences in certain clinical facilities. The PT program may also deny a student access to the on-site clinic based on the findings in a criminal background check. Failure to complete the clinical education component of the program will prevent a student from graduating from the program.
4. University of Puget Sound DPT students are required to complete social action/service learning activities and reflections in the first and second years of the PT program.

### Continuation toward a Degree in Physical Therapy

1. Once degree candidacy has been granted, a student is expected to complete all degree requirements within six years. All courses to be counted in the degree must be taken within the six-year period prior to granting the degree.
2. A student is expected to maintain a cumulative grade point average of 3.0 on a 4.0 scale. The Academic Standards Committee reviews the record of a degree candidate who earns a cumulative grade point below 3.0 or who receives a grade of C+ or lower in a course. A maximum of two courses with a grade of C or C+ may be counted toward a degree, subject to School approval. Grades of C-, D+, D, D-, F and WF are failing grades and are not used in meeting graduate degree requirements but are computed in the cumulative grade point average. A candidate falling below a 3.0 will be placed on academic probation. A student will not be approved for Clinical Experiences I-II while on academic probation. Schedule for clinical experiences taken out of usual timing will be determined by the DCE and will likely result in delayed graduation.

A candidate failing a course may not register for additional work until this course is repeated for a successful grade. All DPT program courses are offered once in an academic year. Failing a course will therefore result in the student being placed on an

academic leave of absence for one semester. The student will enroll and repeat the failed course for a grade. The student will be required to pay a per unit tuition and will not be eligible for financial aid during this semester. The student will resume full time coursework in the next semester.

A student will be unable to continue in the program or enroll in Physical Therapy courses if the student receives a failing grade for the second time in a required course; must repeat more than two required courses; violates the standards of ethical practice observed by the academic and clinical educational programs in physical therapy; or violates university policies regarding academic integrity. A student may petition the Academic Standards Committee to appeal this decision.

3. In addition, each student must provide his or her own transportation to facilities for clinical experiences, pay a fee for PT full time clinical experiences, and maintain health insurance, immunization, and a current CPR certificate, and maintain current membership in the APTA for the duration of the PT program.

## Course Sequence

Students must be admitted to the Doctor of Physical Therapy Program before taking the following course sequence. The unit value for each term will equal 4 units for full-time work with the current class schedule, excluding terms consisting only of clinical Experiences (PT 657 and PT 687).

### First Year

Fall Term	Spring Term
PT 601 (0.75 unit)	PT 602 (1.0 unit)
PT 605 (1.0 unit)	PT 610 (1.0 unit)
PT 625 (0.75 unit)	PT 635 (0.5 unit)
PT 630 (0.75 unit)	PT 640 (0.5 unit)
PT 633 (0.75 unit)	PT 644 (0.5 unit)
	PT 645 (0.5 unit)

### Second Year

Fall Term	Spring Term	Summer Term
PT 641 (0.75 unit)	PT 643 (0.5 unit)	PT 657 (0 unit)
PT 642 (0.75 unit)	PT 646 (0.5 unit)	
PT 648 (0.75)	PT 647 (0.5 unit)	
PT 650 (1.0 unit)	PT 649 (0.5 unit)	
PT 653 (1.0 unit)	PT 651 (1.0 unit)	
	PT 654 (0.5 unit)	

### Third Year

Fall Term	Spring Term
PT 655 (0.5 unit)	PT 687 (0 unit)
PT 660 (1.0 unit)	
PT 661 (0.5 unit)	
PT 664 (0.5 unit)	
PT 677 (3 sections; 0.5 unit each)	

The courses offered in the Physical Therapy Program must be taken in the above-noted sequence. The Program is designed for full-time enrollment only. All PT courses have as a prerequisite successful completion of all scheduled preceding courses. All PT courses are only offered in the term listed.

## Course Offerings

Unless otherwise specified, each course carries 1 unit of credit and is offered at least once each academic year. Please see "Frequency of Course Offerings" on page 18.

## Physical Therapy (PT)

**601 Fundamental Skills of Physical Therapy** 0.75 units. This course introduces the basic skills and procedures that form the foundation of the physical therapy educational program. The course content includes passive range of motion, draping, positioning, and fundamental functional activities such as transfers and ambulation with assistive devices. This course exposes students to the various roles of the physical therapist as an independent practitioner and in conjunction with other disciplines. The course also introduces the medical documentation and the fundamentals of patient and caregiver teaching in multiple situations, all of which are expanded upon in subsequent courses. Emphasis is placed on the acquisition of the motor and interpersonal skills necessary to perform these procedures and to proficiently train patients and caregivers in the basic skills learned in the course. *May be repeated for credit. Offered fall semester.*

**602 Measurement Fundamentals of Physical Therapy** 1.0 unit This course introduces students to the practical and legal issues related to medical documentation and measurement in physical therapy using joint range of motion measurement and manual muscle testing as examples. Emphasis is placed on the acquisition of the motor skills and interpersonal skills necessary to perform these procedures. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**605 Clinical Anatomy and Biomechanics for Physical Therapy** 1.0 unit An in-depth study of clinical functional anatomy of the limbs and trunk, including osteology, arthrology, myology, neurology, angiology, and kinesiology. Biomechanics with application to the analysis of human movement is included. This course is designed to provide clinical knowledge and understanding of the neuromusculoskeletal systems as a foundation for the treatment of injury or disease via physical therapy. *May be repeated for credit. Offered fall semester.*

**610 Neuroscience & Functional Neuroanatomy** 1.0 unit An intensive study of the human nervous system, including structure and function, as a foundation for understanding neurological dysfunction and rehabilitation. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**625 Introduction to Critical Inquiry** 0.75 units. This course introduces students to the concept of using research to inform clinical decision-making skills. Development of measurement and disciplined inquiry skills including emphasis on problem definition, research design, methodology, data analysis and statistical interpretation are stressed. Students learn a 5-step process to incorporate evidence into their PT practice and how to critically appraise multiple types of studies. The information is conveyed through didactic lectures, discussions, cases, and integrated journal club seminars. There is a large active learning component in this course. The overall goal of the course is to hone the student's ability to critically analyze the PT literature. *May be repeated for credit. Offered fall semester.*

**630 Introduction to Professional Issues** 0.75 units. Students explore foundational understandings of what it means to be a professional in health care. Students will explore social issues such as forces that impact health care, the role of legislative and political bodies vis a vis health care, race and class as they impact health care and health seeking behavior, and the role of professional organizations as they impact the health professional. Students will be exposed to the PT Code of Ethics, and will have opportunities to explore their own development as

a professional. *May be repeated for credit. Offered fall semester.*

### **633 Principles of Cardiopulmonary Physical Therapy** 0.75 units.

This course provides an overview of the etiology, incidence, pathology, and medical management of common cardiac and pulmonary conditions across the lifespan. Appropriate physical therapy examination and intervention strategies for individuals with either primary or secondary cardiac or pulmonary dysfunction are introduced both in the context of a specialized cardiac or pulmonary rehabilitation setting as well as in general physical therapy practice. *May be repeated for credit. Offered fall semester.*

**635 Ambulatory Function** 0.50 units. This course is a study of ambulation including the biomechanics of gait. Normal gait frames the course, followed by study of orthotic interventions for the adult patient. Gait characteristics of individuals with lower extremity amputation and the role of physical therapists in gait training and prosthetic management of individuals with amputation complete the course. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

### **640 Physiology, Biophysics, and Application of Physical Agents**

0.50 units. This course begins with an overview of tissue healing and then explores the physiological and biophysical effects of physical agents as they relate to tissue healing and pain relief. A problem-solving approach to selection of the appropriate physical agent and intervention parameters is based on current evidence and clinical case examples. Course includes intensive hands-on laboratory experience with modern equipment utilizing both patient take-home devices and clinical models for development of skill in application of physical agents. Basic electrodiagnostic testing and PT use of biofeedback is introduced. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. Offered spring semester.*

**641 Orthopedic Evaluation and Treatment I** 0.75 units. This course is designed to provide the student with the necessary knowledge and skills to perform orthopedic musculoskeletal and neuromuscular evaluations and interventions utilizing manual therapy (to include spinal mobilizations manipulations, and lower extremity mobilizations and manipulations) and therapeutic exercise for the patient with lumbar spine, pelvis, and/or lower extremity pathology. Approximately 30 percent of class time is devoted to lecture on the basics of orthopedic management. This includes class time dealing with the theory of physical therapy assessment and treatment design. Emphasis is placed on the student's ability to interpret findings from a systemized evaluation and to develop appropriate pathology specific procedures including manual therapy, spinal manipulation, and therapeutic exercise based on current research and literature, as well application of biomechanical theory. The basics of radiologic spine imaging, lower extremity imaging, available imaging modalities, systematic scanning, and appropriateness criteria are covered in detail within this course and integrated into aspects of patient care. Laboratory experience comprises approximately 70 percent of class time for skill development. Clinical experience in the on-site clinic and internships provides opportunities to refine those skills, as well as synthesize information gained in the classroom and lab settings. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Offered fall semester.*

**642 Therapeutic Exercise I** 0.75 units. This course is designed to provide physical therapy students with an understanding of the foundational principles of underlying exercise as a physical therapy intervention. The course first explores the fundamental principles of exercise,

with a particular emphasis on the physiological effects of mobility, strength, and conditioning interventions across the lifespan. Instruction in exercise program planning stresses the need for prescribing therapeutic exercise with precision and consideration of each individual's unique medical history. Exercise interventions for the spine and lower extremities are the regional foci. At these regions, students learn both isolated and integrated techniques and the proper application of each. Finally, the course challenges the student's clinical decision-making as they learn to integrate therapeutic exercise with their evaluation/treatment classes. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Offered fall semester.*

**643 Therapeutic Exercise II** 0.50 units. This course is designed to build on understanding and competencies developed in PT 642. In addition to the regional coverage of the upper spine and shoulder, this course explores the following topics: the use of screening examinations for application in a variety of injury prevention and performance settings; the application of strength and conditioning principles to both late rehabilitation and performance training; the evaluation of exercise products for effectiveness and utility in the clinical environment; gait and movement analysis in orthopedic and sports practice; and movement-based therapies outside the mainstream. Finally, the student's research and presentation of special topics in therapeutic exercise improves their ability to apply fundamental exercise principles to less commonly encountered impairments. *Prerequisite: Successful completion of PT 642 and second year status in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**644 Pharmacology Implications for the Physical Therapist** 0.50 units. This course is designed to provide a comprehensive understanding of the neurophysiologic mechanisms of medications as they apply to physical therapy practice. Particular attention is addressed to medication interaction with physical therapy interventions including but not limited to exercise and joint mobilization or manipulation. Medication interaction with tissue healing and medication interactions with other medications or naturopathic remedies are studied. Typical medications for patient populations seen in each physical therapy discipline are addressed as well as how medication may interfere with typical tests and measures to assist in development of approximate physical therapy interventions. Physical Therapists do not prescribe medications and this course is not intended to suggest extensive knowledge in pharmacology. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**645 Human Motor Development** 0.50 units. In this course, students will explore current theories of motor development and relate them to physical therapy case studies. They will develop knowledge of normal motor development, theoretical models of motor control, development, and learning principles. This will provide the basis for the study of common pathologies encountered in clinical practice. *Prerequisite: Successful completion of all first year first semester courses in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**646 Orthopedic Evaluation and Treatment II** 0.50 units. A continuation of PT 641, this course is designed to provide the student with the necessary knowledge and skills to perform orthopedic musculoskeletal and neuromuscular evaluations and interventions utilizing manual therapy (to include spinal mobilizations and spinal manipulations, upper extremity mobilizations and manipulations) and therapeutic exercise for the patient with cervical spine, thoracic spine, ribs cage, temporalmandibular and/or upper extremity pathology. Approximately 30 percent of class

time is devoted to lecture on the basics of orthopedic management. Emphasis is placed on the student's ability to interpret findings from a systemized evaluation and to develop appropriate pathology specific procedures including manual therapy, spinal manipulation, and therapeutic exercise based on current research and literature, and biomechanical theory. Laboratory experience comprises approximately 70 percent of class time for skill development. Radiologic spine imaging is continued from PT 641, with content covering imaging of the cervical and thoracic spines, upper extremity, available imaging modalities, systematic scanning, and appropriateness criteria covered in detail and integrated into aspects of patient care. Clinical experience in the on-site clinic and internships provides opportunity to refine these skills, as well as synthesize information gained in the classroom and lab settings. *Prerequisite: Successful completion of PT 641 and second year status in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**647 Physical Therapy Across the Lifespan: Pediatrics** 0.50 units. This course addresses the issues in pediatrics that are relevant to physical therapists. Emphasis is on movement of infants and children from the newborn period to 13 years of age. The course also applies the information on normal development to the many pathologies known to infants and children, particularly to cerebral palsy, meningomyelocele, pseudohypertrophic muscular dystrophy, and developmental delay; these four distinct diagnoses are used as models for the design of physical therapy programs for children with other pathologies. The assessment and treatment of premature infants is also addressed. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**648 Physical Therapy Across the Lifespan: Adult Systemic Pathology** 0.75 units. Systemic processes affect the entire person as an organism. This course is a discussion and review of disease or alteration of several body systems. Each topic is covered with an overview of the pathology, and the medical management of the condition and how pharmacologic management affects physical therapy interventions. Patient cases are framed in the ICF model and the role of the physical therapist in acute, sub-acute, and chronic phases is investigated. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Offered fall semester.*

**649 Physical Therapy Across the Lifespan: Geriatrics** 0.50 units. This course is designed to prepare students to work with individuals late in the lifespan, particularly those age 65 and older. The content includes an overview of the physical, physiological, cognitive and emotional changes associated with aging as well as selected pathologies and challenges commonly encountered when working with older individuals. Students participate in health promotion and fall risk screenings for community-living older adults. Students are encouraged to integrate learning from other courses to select appropriate tests and measures and to identify and implement appropriate interventions for impairments and functional limitations commonly seen in the geriatric population. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Offered spring semester.*

**650 Integrated Clinical Experience** 1.0 unit This course consists of integrated clinical experiences designed to give students an opportunity to apply their knowledge and skills in an on-campus clinic. Students observe and assist in the onsite clinic and participate in an exercise/wellness group. The companion seminar complements the integrated clinical learning experience with content including documentation skills, standards of practice, professional behavior and interdisciplinary collaboration. In addition, the seminar is used to facilitate the selection of full-time clinical internships through exploration of the factors that influence

clinical education and strategies for progressive clinical and professional skills development. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Pass/Fail Required. Offered fall semester.*

**651 Integrated Clinical Experience II** 1.0 unit This integrated clinical experience course entails the analysis and synthesis of physical therapy concepts, skills, and values utilizing clinical experiences in the on-site clinic. Students work closely with clinical instructors (CIs) to participate in the examination, evaluation, diagnosis, prognosis and intervention processes of individuals with impairments, functional limitations or changes in physical function resulting from a variety of neurological or musculoskeletal disorders. The course includes a weekly seminar designed to build on prior coursework with a focus on synthesis of academic and clinical work in best practice for patient management. In addition, the seminars prepare students for their clinical internships in terms of discussing logistics, professionalism, and non-patient care aspects of physical therapy. *Prerequisite: Second year status in the Physical Therapy program. May be repeated for credit. Pass/Fail Required. Offered spring semester.*

**653 Adult Neurologic Rehabilitation Common Pathologies, Interventions, and Outcome Measures** 0.75 units. This course is a study of the assessment and treatment of adults with neurological disorders. Students explore common manifestations of neurological impairments and how physical therapy can intervene. Evidence based application of standardized outcome measures is also emphasized using the ICF model. *Prerequisite: Completion of first year of DPT. May be repeated for credit. Offered fall semester.*

**654 Adult Neurologic Rehabilitation Foundations in Treatment Design** 0.50 units. The foundational neurorehabilitation models of treatment, current theory, and evidence are discussed. Students learn movement analysis and strategies for functional movement training using principles of motor learning. *Prerequisite: Completion of first year of DPT and PT 653. May be repeated for credit. Cannot be audited. Offered spring semester.*

**655 Physical Therapy for Adults with Enduring Neurologic Disability** 0.50 units. This course teaches health promotion and prevention of secondary impairments in neurologic populations. Using SCI as a model patient for lifelong care, PT students are taught skills that span from acute care to aging with disability. Upper extremity preservation concepts are learned in conjunction with advanced transfer and wheelchair skills to maximize community participation potential. An overview of wheelchair seating and prescription for individuals with neurologic disability, as both health promotion and as intervention, completes the course. *Prerequisite: PT 653 and 654. May be repeated for credit. Offered fall semester.*

**657 Clinical Experience I** No credit. This fifteen-week, full-time clinical experience occurs off-campus and is designed to provide students with an opportunity for guided and independent experiences in providing physical therapy services to the public. *Prerequisite: Successful completion of all courses for years one and two of the DPT program. May be repeated for credit. Offered summer term.*

**660 Integrated Clinical Experience III** 1.0 unit The integrated clinical experience gives students an opportunity to further apply their knowledge and skills in a realistic clinical setting. Students work closely with clinical instructors to provide physical therapy services to individuals from the community with impairments, functional limitations or changes in physical function resulting from a variety of neurological or musculo-

skeletal disorders. In addition, students participate in health promotion and injury prevention programs, interdisciplinary collaboration, and begin to develop clinical teaching skills. *Prerequisite: Successful completion of all courses for years one and two of the DPT program. May be repeated for credit. May be repeated for credit. Pass/Fail Required. Offered fall semester.*

**661 Psychological Factors in Physical Therapy Practice** 0.50 units. This course provides an introduction to salient psychological factors having direct bearing on effective physical therapy practice. Areas covered include psychological paradigms; utilizing collaborative psychological resources; classification and diagnostic criteria of psychopathologies commonly comorbid with patient conditions presented to the physical therapist; impact of locus of control on physical restoration, adherence, and functional independence; psychological reactions to disability; motivational principles and psychobehavioral predictive factors in exercise adherence; countertransference; psychological factors in chronic pain syndromes; psychosomatic theory; psychophysiology of the stress response; and application of therapeutic relaxation techniques. *Prerequisite: Successful completion of all courses for years one and two of the DPT program. May be repeated for credit. May be repeated for credit. Offered fall semester.*

**664 Physical Therapy Administration** 0.50 units. This course covers the role of physical therapists in administrative settings and leadership roles. An overview of the costs of providing physical therapy and who pays for services is presented. Constraints and benefits of care delivery in various practice environments are discussed. Leadership is presented as a vital skill for all physical therapists, ranging from treating a patient one-on-one to roles managing staffs, departments, and serving the profession through volunteer positions in state and national professional associations. Students learn to lead from any level and understand the role physical therapy leaders have in healthcare. *Prerequisite: Successful completion of all courses for years one and two of the DPT program. May be repeated for credit. May be repeated for credit. Offered fall semester.*

**677 Advanced Topics in Physical Therapy** 0.50 units. These courses are designed to build from students' basic backgrounds in a specialized area of physical therapy practice to a level of expertise and comprehensive understanding. Several topic areas are available each year. Course content includes basic medical science, clinical examination and intervention theory and practice, the opportunity to practice knowledge and skill in the treatment of actual patients, and synthesis of knowledge in a formal case report. Three topics are required. *Prerequisite: Successful completion of all courses for years one and two of the DPT program. May be repeated for credit. May be repeated for credit. Offered fall semester.*

**687 Clinical Experience II** No credit. This seventeen-week, full-time clinical experience occurs off-campus and is the culmination of the academic and clinical portions of the DPT curriculum. The experience is designed to provide students with an opportunity for guided and independent experience providing physical therapy services to the public. *Prerequisite: Successful completion of PT 657 and all required coursework for the DPT program. May be repeated for credit. Pass/Fail Required. Offered spring semester.*

**695 Independent Study** Variable credit up to 1.00 unit. Independent study is available to those students who wish to continue their learning in an area after completing the regularly offered courses in that area. *May be repeated for credit up to 2.00 units. Cannot be audited. Cannot be taken Credit/No Credit.*

**697 Special Project** Variable credit up to 1.00 unit. An independent study course designed to provide the student with an opportunity to engage in a collaborative project with faculty. The student, with faculty supervision, develops an individualized learning contract that involves critical inquiry, clinical research, and/or classroom teaching. *May be repeated for credit up to 4.00 units. Cannot be taken Credit/No Credit.*

### Physical Therapy Clinical Affiliates

Clinical centers that accept full-time student affiliates for PT 657 and PT 687 are located throughout the United States primarily in Washington, Oregon, California, Alaska, and Hawaii.