



UNIVERSITY *of* MARYLAND
SCHOOL OF MEDICINE

**DEPARTMENT OF PHYSICAL THERAPY
AND REHABILITATION SCIENCE**

[HTTP://PT.UMARYLAND.EDU](http://pt.umaryland.edu)

Wireless Access: Username: guest Password: somquest



Physical Therapist Job Outlook

www.bls.gov

Employment of physical therapists is expected to increase 39% from 2010 to 2020, much faster than the average for all occupations.

Demand for physical therapy services will come, in large part, from the aging baby boomers, who are staying more active later in life than previous generations.





**Department of Physical Therapy
and Rehabilitation Science**

Who are we?

University of Maryland Baltimore

(Research Intensive University)



School of Medicine

(Focus on Medical Education)

Graduate School

(Focus on Research Training)



Department of Physical Therapy and Rehabilitation Science (PTRS)

Training of Clinical Practitioners (Physical Therapy: DPT)

Training Researchers/ Academics (Rehabilitation Science: PhD)



**Department of Physical Therapy
and Rehabilitation Science**

PTRS Mission

The Department of Physical Therapy and Rehabilitation Science (PTRS) advocates for and advances societal health by optimizing wellness and human performance through excellence in education, research, clinical practice and service.





**Department of Physical Therapy
and Rehabilitation Science**

PTRS Vision

❖ Graduating culturally competent professionals capable of delivering excellent client-centered clinical care through critical thinking, evidence based practice, and lifelong learning (EDUCATION)

❖ Providing new knowledge and evidence that enhances rehabilitation science and supports clinical practice through expertise, innovation, technology, and science (RESEARCH, CLINICAL PRACTICE)



❖ Guiding and promoting the physical therapy profession and rehabilitation science through engagement with scientific and professional organizations as well as local, national, and international communities (SERVICE)



**Department of Physical Therapy
and Rehabilitation Science**

Degree Options

School of Medicine

Graduate School

Graduate School

Graduate School

Doctor of Physical
Therapy (DPT)

PhD in Rehabilitation
Science

Combined
DPT/MPH

Combined DPT/PHD
Program

- ❖ Clinical practice as an independent practitioner
- ❖ Possibly eligible for academic position
- ❖ 3 years
- ❖ Lock-step curriculum

- ❖ Independence as a researcher
- ❖ Eligible for academic position
- ❖ Average 5+ years
- ❖ Diverse curricular offerings-multi-campus

- ❖ Independence as a researcher and clinical practitioner
- ❖ Eligible for academic position
- ❖ 4 years

- ❖ Independence as a researcher and clinical practitioner
- ❖ Eligible for academic position
- ❖ Average 7+ years (3 DPT then PhD)



Department of Physical Therapy
and Rehabilitation Science

DPT PROGRAM GOALS



Department of Physical Therapy
and Rehabilitation Science

DPT Student Outcomes

- ❖ Function as an entry-level independent point of entry provider of physical rehabilitation and rehabilitation services
- ❖ Effectively manage care for persons in medically-complex, rehabilitation, and community-based settings
- ❖ Autonomously practice in a variety of healthcare environments
- ❖ Provide guidance and interventions to promote wellness and prevention and to enhance the physical performance of persons in the community





**Department of Physical Therapy
and Rehabilitation Science**

DPT Student Outcomes

- ❖ Effectively communicate orally and in writing with patient/families, colleagues, other health care professionals and the general public
- ❖ Contribute to the management of physical therapy services, administration and marketing strategies, and fiscal responsibilities within a practice setting
- ❖ Initiate a plan of lifelong learning and continuing competence
- ❖ Participate in service and / or professional activities that advance the profession of physical therapy
- ❖ Use evidence as a basis for critical thinking, decision-making and independent practice



**Department of Physical Therapy
and Rehabilitation Science**

DPT CURRICULUM



Department of Physical Therapy
and Rehabilitation Science

Hybrid Curricular Design

Blend “traditional” with “block” instruction

- ❖ Immersion in subject area(s)
- ❖ Incorporate strengths of multiple faculty
- ❖ Integration of topics
- ❖ Improved efficiency of student’s time



Department of Physical Therapy
and Rehabilitation Science

Curriculum Calendar

May/Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
BS1 Professional Issues 1			BS2				BS3				Professional Issues 2
Medical Issues			Musculoskeletal Issues 1 Neuromuscular Issues 1				Musculoskeletal Issue 2 Neuromuscular Issues 2				Clinical Qualifying Measures
			Integrated Clinical Experience 1				Integrated Clinical Experience 2				
Professional Issues 3		Clinical Experience 1			Clinical Experience 2			Clinical Experience 3			





**Department of Physical Therapy
and Rehabilitation Science**

Testing

A variety of methods are used to test your knowledge and skills throughout the curriculum:

Written exams/ Quizzes

Assignments

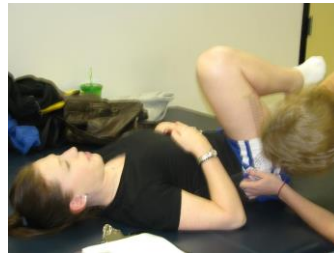
- (documentation notes, research reviews, evidence-based medicine projects)

Performance Based Exams (PBAs)

Modules

Standardized patients

Clinical performance



**Department of Physical Therapy
and Rehabilitation Science**

YEAR I



Department of Physical Therapy
and Rehabilitation Science

Basic Sciences I

- ❖ Gross anatomy dissection
- ❖ Osteology
- ❖ Embryology
- ❖ Functional anatomy



Department of Physical Therapy
and Rehabilitation Science

Basic Sciences II

- ❖ Cell / muscle biology
- ❖ Physiology
- ❖ Pathology
- ❖ Neurology
- ❖ Neuroanatomy
- ❖ Development
- ❖ Pharmacology
- ❖ Introduction to tests and measures





Department of Physical Therapy
and Rehabilitation Science

Basic Sciences III

- ❖ Biomechanics
- ❖ Therapeutic technologies
- ❖ Tests and measurements
- ❖ Basic rehabilitation
- ❖ Basic therapeutic exercise
- ❖ Massage / soft tissue
- ❖ Graded exercise testing



Department of Physical Therapy
and Rehabilitation Science

Professional Issues I

- ❖ Code of Ethics
- ❖ Evidence-based practice
- ❖ Guide to Physical Therapy Practice
- ❖ Foundational psychomotor skills
- ❖ Medical terminology





Department of Physical Therapy
and Rehabilitation Science

Professional Issues II

- ❖ Professional roles: (clinician, researcher, advocate)
- ❖ Autonomous practice
- ❖ Documentation
- ❖ Cultural diversity
- ❖ Finding and utilizing evidence
- ❖ Disability awareness
- ❖ Pinning ceremony



Department of Physical Therapy
and Rehabilitation Science

YEAR 2



Department of Physical Therapy
and Rehabilitation Science

Management of Medical Issues

- ❖ Acute illness
- ❖ Cardiovascular and Pulmonary disease
- ❖ Vascular and integumentary disorders
- ❖ Amputation and Limb prosthetics
- ❖ Orthotics

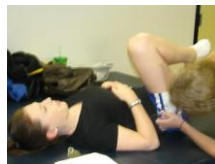


Department of Physical Therapy
and Rehabilitation Science

Musculoskeletal Issues I & II

Differential orthopedic diagnosis and intervention

- sport injuries, orthopedic surgical cases, general orthopedic conditions
- MS1: Peripheral
 - Shoulder, elbow, wrist, hand, hip knee ankle, foot
- MS2: Spine / Pelvis





Department of Physical Therapy
and Rehabilitation Science

Neuromuscular Issues I & II

Neuromuscular injury and disease – examination and intervention

- **NM1: Cortical / Subcortical Diagnoses**
 - Stroke, Head injury, Tumors, Developmental Delay, Cerebral Palsy, Vestibular and Cerebellar Disorders, Autism
- **NM2: Subcortical, Spinal and Peripheral Diagnoses**
 - Basal Ganglia Disorders, Spinal cord injury, Neuromuscular disorders, Chronic pain, Peripheral neuropathies



Department of Physical Therapy
and Rehabilitation Science

All Clinical Blocks (MI, MSK and NM)

Integrate and build upon material prior material:

- ❖ Psychology of disability
- ❖ Movement control and retraining
- ❖ Tests and measures
- ❖ Therapeutic technologies
- ❖ Research and evidence-based medicine
- ❖ Rehabilitation techniques / therapeutic exercise
- ❖ Documentation





Department of Physical Therapy
and Rehabilitation Science

Integrated Clinical Experiences (ICE)

- ❖ ICE I and ICE II Concomitant with year 2 clinical courses
- ❖ 2 experiences
 - Fall and spring
 - Professional Practice Opportunities



Department of Physical Therapy
and Rehabilitation Science

Clinical Qualifying Measures

Preparation

- Guided student review to assist with integration, clinical decision-making and time management in preparation for full time clinical internships

Clinical matriculation assessment

- Standardized patient encounter





Department of Physical Therapy
and Rehabilitation Science

Professional Issues III

- ❖ Landing a job
- ❖ Communication and leadership
- ❖ Managing personnel
- ❖ Legal and statutory oversight
- ❖ Financial and risk management
- ❖ Coding and reimbursement



Department of Physical Therapy
and Rehabilitation Science



Educational Space Within PTRS

- One dedicated lecture hall
- 5 large spaces for laboratory sessions (one of these convertible to lecture space)
- 1 acute care lab (hospital beds, vents, IV)
- 2 Conference rooms
- 4 Dedicated rooms for student computers



Department of Physical Therapy
and Rehabilitation Science

YEAR 3



Department of Physical Therapy
and Rehabilitation Science

Clinical Education

Full-time internships (Current model)

- ❖ 3 separate experiences, 11 weeks each
- ❖ Required settings:
 - medically complex
 - community-based
 - elective rehabilitation specialty
- ❖ One non-local setting required





Department of Physical Therapy
and Rehabilitation Science

Clinical Education

- ❖ We have access to >1000 clinical sites - Country-wide
- ❖ Transportation and lodging are the responsibility of the student
- ❖ Background check and drug screen are required

Results not shared with UMB, PTRS

http://pt.umaryland.edu/DPT_clinical_education_handbook.asp

**PTRS reserves the right to alter the Clinical Education placement,
to adapt to the fluid nature of the clinical environment**



Department of Physical Therapy
and Rehabilitation Science

DPT COMMUNITY



Department of Physical Therapy
and Rehabilitation Science

Community Cohesion



Combined Sections Meeting



Burn Camp Visitor's Day



Ropes Course



Intramural Sports Champions 2014



Department of Physical Therapy
and Rehabilitation Science

Community Philanthropy



Swim Across
America



Phonathon



Wheel Chair Basketball
Challenge



Golf
Tournament



Habitat for the
Humanity





**Department of Physical Therapy
and Rehabilitation Science**



Community Health Fair



Campus Wellness Fair

Community Wellness



Balance Project



**Department of Physical Therapy
and Rehabilitation Science**

DPT FACULTY





Department of Physical Therapy
and Rehabilitation Science

Faculty Overview



- ❖ All core faculty members with Doctoral degree training; Associated faculty (PTs with clinical expertise to augment core faculty)
- ❖ 15 core faculty licensed physical therapists with diverse clinical backgrounds
- ❖ Representation of Clinical Specialist Certification in Orthopedics, Neurology, Pediatrics, Cardiovascular and Pulmonary, Geriatrics, Sports
- ❖ Faculty actively engaged in research with > 1 million dollars in annual funding (cutting-edge research in falls in the elderly, post stroke rehabilitation and mechanism of brain plasticity, rehabilitation robotics)
- ❖ Faculty active and hold offices in the American Physical Therapy Association and other professional organizations (international, national and state level)

EDUCATION RESEARCH CLINICAL PRACTICE SERVICE



Department of Physical Therapy
and Rehabilitation Science

DPT STANDARDS



Department of Physical Therapy
and Rehabilitation Science

Student Essential Functions

- ❖ **Observation:** The functional use of the sense of vision and other sensory modalities
- ❖ **Communication:** Professional written, verbal and non-verbal forms
- ❖ **Physical Performance Skills, Coordination, and Function:** Mobility, gross and fine motor, and coordination skills
- ❖ **Cognition:** Timely problem solving, safety judgment and reasoning
- ❖ **Behavioral and Social:** Maturity and emotional health

http://pt.umaryland.edu/dpt_student_handbook.asp



Department of Physical Therapy
and Rehabilitation Science

Accreditation

The Entry-Level Doctor of Physical Therapy program at the University of Maryland School of Medicine is accredited by the Commission of Accreditation in Physical Therapy Education (**CAPTE**)

Address: 111 North Fairfax Street, Alexandria, Virginia, 22314
Telephone: 703-706-3245
Email: accreditation@apta.org
Website: <http://www.capteonline.org>



Department of Physical Therapy
and Rehabilitation Science

Student Outcomes

	2016	2017	2018
Enrolled in original cohort	55	54	65
Graduated on time or later that year	52	54	63
Graduated the following year	54	0	2 in process
Graduation Rate:	100%	100%	96.9 % to date
Licensure Pass Rate:	100%	100%	93.7% to date
Employed as PT within six months of passing the licensure exam.	100%	100%	100%



Department of Physical Therapy
and Rehabilitation Science

CAMPUS HIGHLIGHTS



University of Maryland Medical Center



Shock Trauma



Baltimore VA Medical Center



Student Union



Health Sciences Library



We are happy to answer questions at this time.

ขอบคุณ

Merci

תודה

Gracias

多謝

THANK
YOU

شكراً

Obrigado!