

## OTD COURSE DESCRIPTION

### **OTH 505 Anatomy (4 credits)**

A comprehensive study of human anatomy with emphasis on the nervous, skeletal, muscle, and circulatory systems. Introduction to basic embryology and its relation to anatomy and the clinical sciences concludes the course. Provides a solid morphological basis for a synthesis of anatomy, physiology, and the occupational/physical therapy clinical sciences. Co-requisite OTH 515

### **OTH 515 Anatomy Lab (3 credits)**

Dissection and identification of structures in the cadaver supplemented with the study of charts, models, prosected materials, and radiographs are utilized to identify anatomical landmarks and configurations. Co-requisite OTH 505

### **OTH 520 Human Development and Occupation (3 credits)**

This course will examine human physical, cognitive, emotional, and psychological development. The course places emphasis on diversity and quality of life as they relate to lifestyle choices and meaningful occupations. Human development will be examined from the sociocultural and socioeconomic contexts.

### **OTH 516 Movement and Occupational Performance (3 credits)**

An analysis of human movement and its relationship to occupational performance. Students will learn information on the interrelationships between human structural design and functional capabilities of the human body for use in the enactment of occupational performance. The anatomical principles, neuromotor control, and kinesiology principles will be highlighted in relation to their influence on human movement and functional performance.

### **OTH 500 Introduction to Occupational Science (3 credits)**

Introduction to occupational science by reviewing occupation and its relationship to occupational therapy. Students will examine the contributions of occupational science to occupational therapy, including human occupation or activity. Students will study activities people do in their everyday lives and how those occupations influence and are influenced by health and well-being. The course will explore the relationship between occupation and development, and how occupation changes over the course of life. It will cover how people organize their daily occupations and the personal and socio-cultural implications of occupation.

### **OTH 565 Neuroscience and Motor Control (3 credits)**

An examination of the basic anatomy and function of the central and peripheral nervous system with an emphasis on those structures involved in the control of human movement. Students are introduced to terminology and concepts associated with normal

and abnormal functions of selected areas of the neuraxis. This course provides the foundation for the neurology sequence. Co-requisite OTH 575 (**Cross listed with DPT**)

**OTH 575 Neuroscience and Motor Control Lab (1 credit)**

Study of the prosected central and peripheral nervous tissues, models, and charts. Imaging will be used to compare normal to abnormal CNS presentation. Portions of the lab will concentrate on making connections between neurological structures and their role in controlling human movement. Co-requisite OTH 565 (**Cross listed with DPT**)

**OTH 530 Pathophysiology I (2 credits)**

Sequence studying disease processes affecting major body systems and the resulting anatomical and pathophysiological changes. Clinical presentations and treatment of patients with those disease processes are presented, as well as diagnostic tests and laboratory values used to identify pathological conditions. Pre-requisites OTH 505 & OTH 515 (**Cross listed with DPT**)

**OTH 562 Comparative Religion (2 credits)**

This course surveys the major religious traditions of the world. Study includes an overview of origins; major philosophical and theological underpinnings; typical aspects of worship and ethics; and major social, cultural, and political influences. Study is done from a consciously Christian framework. (**Cross listed with DPT**)

**OTH 553 Professional Reasoning (1 credit)**

This course introduces students to critical thinking and decision-making. The course provides a systematic approach to clinical reasoning. The course will utilize case studies and reflection to promote integrating knowledge and application of task analysis, influences of sociocultural and socioeconomic factors, theoretical concepts, assessments and screens, and development of occupation-based intervention plans in the occupational therapy practice areas of pediatrics, introductory neuroscience, physical dysfunction, and mental health.

**OTH 501 Foundations of OT Practice (3 credits)**

This course lays a foundation for the students to understand the history, philosophy, theoretical foundations of occupational therapy, introduction to the Occupational Therapy Practice Framework (OTPF-4) and guiding principles of practice. Selected theoretical foundations that relate to professional practice will be emphasized and key terminology used in the profession including but not limited to role and meaning of occupation, occupational science, ethics, documentation, and task/activity analysis.

**OTD 5## OTD Orientation (0 Credit)**

This orientation course reviews the principle and practices underlying the curriculum and instruction of the OTD Program. This course also facilitates bonding with cohort

classmates to enrich the students' experience in the OTD program and assists the student and cohort in emulating the core values of the School of Rehabilitation Sciences. This course will also discuss student expectations and responsibilities as OTD students. This will provide the students with an overview of occupational therapy.

### **OTH 5## Pathophysiology II (2 Credits)**

Sequence studying disease processes affecting major body systems (not covered in OTH 530 Pathophysiology I) and the resulting anatomical and pathophysiological changes. Clinical presentations and pharmacological treatment of patients with those disease processes considered, as well as diagnostic tests and laboratory values used to identify pathological conditions. **(cross listed with DPT)**

### **OTH6## Conditions in Physical Dysfunction (2 Credits)**

This course introduces students to a variety of health conditions relevant to occupational therapy practice in adult and older adult rehabilitations and each condition's potential impact on client factors and performance skills as they relate to occupational performance across the lifespan. Course content includes an overview of neurological, orthopedic, traumatic, and chronic health conditions commonly addressed in occupational therapy practice in adult and older adult settings.

### **OTH6## Occupational Therapy Process in Physical Dysfunction (3 Credits)**

This course covers all aspects of identifying occupational needs of adults and older adults through assessments and interventions guided by the occupational therapy practice framework within adult and older adult domain. This course involves history taking, selecting, and implementing appropriate assessments and interventions tools for the many different types of adult and older adult conditions and various adult and older adult practice settings. Training includes areas such as self-care, self-management, health management, compensatory strategies, grading and adapting activities, and referring to other professionals as needed.

### **OTH6## Occupational Therapy in Physical Dysfunction Lab (2 Credits)**

This knowledge application lab course engages students in completing appropriate assessments, utilizing appropriate assessment tools, designing and implementing occupational therapy various treatment interventions specific to the diagnoses and conditions taught in OTH 5##. Students learn to select from various types of assessments and interventions including but not limited to activities that are occupation-based, meaningful to the client and promote optimal client outcomes as indicated in the Occupational Therapy Practice Framework-Domain and Process. Occupational Therapy theoretical constructs, frames of reference, practice models and scientific evidence guide clinical reasoning for intervention planning and selection.

### **OTH6## Fieldwork Level I: Physical Dysfunction (1 Credit)**

The students will apply the knowledge gained across the curriculum to work with adults and older adults under the supervision of an occupational therapist. This Level I fieldwork is designed to afford students the opportunity for hands-on experience on

assessment, evaluation, treatment planning and client intervention. The student will learn to be part of the therapy team and professionally interact with clients and interdisciplinary teams. This fieldwork provides the opportunity for students to translate their professional reasoning skills, observation skills, performance skills and clinical application of their knowledge into a clinical setting.

### **OTH6## Conditions in Pediatrics (2 Credits)**

This course addresses occupational therapy practice for infants, children, and youth, in relation to a range of conditions including, medical, developmental, attentional & learning conditions that impact on children's occupational performance & participation. Students in this course will examine service delivery systems for infants, children, and youths with developmental disabilities. Characteristics of Early Childhood Intervention (ECI) and School-based service delivery will be compared and contrasted to the medical service delivery system. This course will also examine occupational therapy frames of reference for addressing these issues. Course will also examine history taking, various assessment/evaluation tools, treatment planning, designing and delivery of interventions & models of service delivery.

### **OTH 6## Occupational Therapy Process in Pediatrics (3 Credits)**

This course focuses on identifying the occupational needs through assessment/intervention for infants, children, and youth. The role of OT for birth to three, school-based practice, and clinic/hospital-based practice are covered including professional reasoning and group interventions, selection of appropriate assessments/interventions, standardized testing, and documentation of OT services, and various diagnoses related to children.

### **OTH 6## Occupational Therapy in Pediatrics Lab (2 Credits)**

This knowledge application lab course engages students in designing occupational therapy treatment interventions specific to the diagnoses and conditions taught in OTH 6##. Working with infants, children, and youth to evaluate function, develop treatment plans, and provide evidence-based interventions to infants, children, and youth. Emphasis on learning effective strategies for working with the most seen diagnoses/conditions in pediatric practice.

### **OTH 6## Fieldwork Level I: Pediatrics (1 Credit)**

The students will apply the knowledge gained across the curriculum to work with infants, children, and youths under the supervision of an occupational therapist. Clinical site placement focused on clinical practice and working therapeutically with infants, children, and youth. Students will develop professional reasoning, observational, interpersonal, and communication skills. This fieldwork provides the opportunity for students to translate their professional reasoning skills, observation skills, performance skills, and clinical application of their knowledge into a clinical setting.

**OTH 6## Splinting (1 Credit)**

This course will introduce students to principles of splints, designing, and fabrication of splints. The course will examine the use of orthotic fabrication as treatment methods to improve occupational performance including orthotic design, fabrication, and application for a variety of orthopedic and neurological disorders.

**OTH 6## Advanced topics: Physical Agent Modalities (2 Credits)** This course will review physical agent modalities principles and precautions. Prepares the student for use of physical agent modalities with differential diagnoses in multiple practice settings. Discusses treatment goals and use of physical agent modalities within practice guidelines, assesses common practice techniques, explores regulations and safety, and reviews the process for obtaining advanced practice certification in physical agent modalities.

**OTH6## Capstone Prep I (1 Credit)**

This is the first course in the doctoral capstone experience and project course series. This course focuses on introduction to the capstone portion of the program. Students explore ideas and develop their initial doctoral capstone proposals. This course will introduce student to capstone proposals and project as it aligns with the curriculum design and coincides with the capstone experiential component, in one or more of the following areas: clinical practice skills, research skills, administration, leadership, program and policy development, advocacy, and education.

**OTH 6## Conditions in Mental Health (2 Credits)**

This course will examine the signs, symptoms, psychosocial management, and pharmacological management of general mental health conditions relevant to occupational therapy interventions and occupational performance.

**OTH6## Occupational Therapy Process in Mental Health (3 Credits)**

Students will learn appropriate assessment and intervention strategies for clients of OT services who have psychiatric, social, behavioral, or emotional challenges that hinder the performance of meaningful occupations. Emphasis will include knowledge toward the application of therapeutic use of self, self-evaluation, and communication skills. Students will be introduced to group process principles, including the significant characteristics of groups, group norms, and group development. Students will participate in and lead groups, as well as apply group process principles to psychosocial practice.

**OTH6## Occupational Therapy in Mental Health Lab (2 Credits)**

Application of theories, assessments, and interventions, and the occupational therapy practitioner's roles as related to mental health and psychosocial practice across the lifespan.

**OTH 6## Fieldwork Level I: Mental Health (1 Credit)**

Directed observation and participation in a psychosocial practice setting for individuals, groups, and populations with behavioral impairments that impact occupational

performance. Psychosocial factors that influence engagement and participation in occupation for enriching the concepts presented in OTH 6## are the major focus.

**OTH6## Leadership and Management I: (2 Credits)**

The Core competencies of Leadership will be introduced in meaningful ways to apply leadership skills discussed. This course will cover leadership skills related to business aspects of practice, marketing of services, quality management, servant leadership, liability issues, requirements for credentialing and licensure, professional development requirements, professional engagement and organizational ethics.

**OTD6## Scholarly inquiry and Dissemination I (1 Credit)**

Introduction to the principles and practice of research including research and null hypothesis, research questions, research design, research ethics and IRB protocol, sampling, validity and reliability, methodology, hypothesis testing and critical evaluation of Occupational Therapy literature. Knowledge of the concepts needed for writing a graduate research proposal is interwoven throughout this course to prepare students for the Capstone Project. **(cross listed with DPT)**

**OTH 6## Written Comprehensive I (0 Credit)**

Assesses the student's foundational knowledge and the ability to understand and apply concepts from the foundational and introductory clinical sciences to the practice of Occupational Therapy

**OTH 6## Scholarly Inquiry and Dissemination II (1 Credit)**

Application of the principles and practice of research, including designs, IRB, ethics, hypothesis testing and critical evaluation of clinical literature as they relate to preparation of the Capstone Research Project. Preparation and development of a graduate research proposal is interwoven throughout this course. **(cross listed with DPT)**

**OTH6## Pharmacology I (1 Credit)**

Introduction to the general principles of pharmacology including pharmacokinetics and the development of a non-prescriptive knowledge of drug nomenclature, classification and medications specifically impacting Occupational Therapy Practice.

**OTH6## Research Statistics and Lab (3 Credits)**

Fundamental procedures in collecting, summarizing, presenting, analyzing, and interpreting statistical data. Statistical tests applied to medical specialties. Lab will include practice in the computation of statistical data using appropriate tests. Practical applications of techniques in research and statistical computations including probability, normal distribution, Chi Square, correlations, linear regression, and logic regression.

**OTH6## Prosthetics and Orthotics (2 Credits)**

Study of orthotics and prosthetics including the evaluation, application, and management of individuals with limb loss and limb impairment requiring orthotic and/or prosthetic

intervention. Application of these devices in occupational therapy to maximize functional independence. **(cross listed with DPT)**

**OTH6## Integration of Spirituality in health care (2 Credits)**

A discussion of spiritual values from a Christian perspective, how faith and spirituality facilitate the healing process, and how these can be incorporated into patient care. Attention will be given to discerning and addressing the spiritual needs of patients/clients, family members, and ancillary medical staff in a professional environment. **(cross listed with DPT)**

**OTH6## Pharmacology II (1 Credit)**

This course focuses on the general principles of pharmacology specifically related to psychotropic diagnoses commonly seen in occupational therapy practice (not covered in Pharmacology I OTH 6##). This course will cover common side effects and precautions associated with psychotropic medications and the impacts on occupational performance for persons with psychosocial dysfunction.

**OTH6## Culture and Occupation (2 Credits)**

This course introduces students to ethical principles and multicultural awareness as they relate to occupational therapy. This course will explore the cultural differences, its impact, and meaning on occupation. The course will also cover the importance of diversity, equity, inclusion, justice, access and belonging to the clinician, the clients and to the communities they serve. Resources and tools will be discussed to strengthen the occupational therapy practitioner's contribution to a healthy and engaged community.

**OTH 7## Fieldwork Level II (12 weeks) (6 Credits)**

During this first 12-week full-time fieldwork placement students will apply their understanding of the occupational therapy process, professional practice, and leadership. Under the direct supervision of an occupational therapist, students will advance their clinical problem-solving skills and gain competence as a generalist practitioner in providing occupational therapy services to individuals with physical dysfunctions, psychosocial, or pediatrics (the student cannot repeat a placement in the same area - physical dysfunction, mental health, or pediatrics).

**OTH7## Leadership and Management II (2 Credits)**

This course is a continuation of information from Leadership and management I (OTH6##) necessary for servant-based occupational interventions and leadership with focus on delivery, advocacy, and systems. Students will explore the practice of occupational therapy with emphasis on servant service and leadership. This course explores how to serve the community or abroad drawing upon faith-based beliefs, professional leadership skills and incorporating them with the guidelines and history of the occupational therapy profession.

**OTH7## Practical Comprehensive Exam (0 Credit)**

This comprehensive examination will require students to integrate material from various courses and clinical experiences. The examination assesses the student's occupational therapy entry level preparedness to apply the concepts of the clinical sciences to safe and effective patient-centered care in the practice of occupational therapy.

**OTH8## Fieldwork Level II (12 weeks) (6 Credits)**

During this first 12-week full-time fieldwork placement students will apply their understanding of the occupational therapy process, professional practice, and leadership. Under the direct supervision of an occupational therapist, students will advance their clinical problem-solving skills and gain competence as a generalist practitioner in providing occupational therapy services to individuals with physical dysfunctions, psychosocial, or pediatrics (the student cannot repeat a placement in the same area - physical dysfunction, psychosocial or pediatrics).

**OTH7## Certification Prep and OT Knowledge Exam (0 Credit)**

This course prepares students for the NBCOT certification exam. The students will learn how to solve problems, review of case scenarios, and discuss essential areas of occupational therapy. The student will also complete practice tests in preparation for the certification exam.

**OTH7## Capstone Prep II (1 Credit)**

This course provides details on the capstone proposal process. This course is designed to prepare students to develop their individual plan for their doctoral capstone experience and project. Students will identify potential topics and sites for the doctoral experience. Students will develop and conduct the needs assessment related to their capstone experience. Students will demonstrate skills of self-direction, self-sufficiency, independence, and professionalism expected at the doctoral level.

**OTH7## Christian Ethics in Rehabilitation Sciences (2 Credits)**

An inquiry into the field of professional relations, dilemmas, and decision making within the context of Christian ethics. Emphasis on the identity, activity, and influence (witness) of a Christian professional, primarily in the various aspects of a healthcare professional. Study is done from a consciously Christian framework. **(Cross listed with DPT)**

**OTH7## Implementation and Application of Research Project (1 Credit)**

Provides students with an opportunity to integrate all research knowledge learned from previous research courses. The student will be provided with guidelines and supervision for data collection, analysis, research project preparation, research report writing, and oral presentation.

**OTH7## Capstone Prep III (1 Credit)**

Students complete a literature review for the capstone project and identify a theoretical framework appropriate for their identified doctoral experience site. The proposal will identify the site, mentoring agreement (MOU), individualized objectives for the doctoral



capstone, project outcome assessment(s), connection to curricular threads, link to OTD mission and philosophy, and how it contributes to in-depth knowledge in the area of interest based on the needs assessment results. By the end of this course the student will be required to submit a capstone proposal, outlining how they will integrate their knowledge of theoretical frameworks, capstone design, and professional issues on their doctoral capstone project.

**OTH7## Certification Prep (0 credit)**

This course prepares the students for the NBCOT certification exam. The student will Learn via lecture, online practice test, solve problems and discuss essential areas of occupational therapy.

**OTH7## Topics in Contemporary and Emerging Practice (2 Credits)**

Students learn how occupation focused practice can be applied to a wide variety of settings and circumstances to improve the health and well-being of a diverse range of people. This course provides focused training to address occupation-based contemporary and emerging practice areas, advanced skills, &/or professional development. The course will introduce the students to OT practice in ergonomics, aging in place, driver rehabilitation, health promotion and prevention, telehealth, cancer, seating and positioning and adaptive equipment, low vision and adaptive equipment and technology.

**OTH7## Advanced practice: Evidence-based practice in OT (2 Credits)**

This course enables students to develop advanced skills in searching, appraising, and integrating research evidence and applying into practice. Students will work in small groups to evaluate the rigor of a body of research evidence available to answer a contemporary and important question relating to the practice of occupational therapy. After selection and appraisal of rigorous research evidence, the students will integrate with current clinical knowledge/expertise and contextual factors. Students will be supported to develop, articulate, and justify, through written and verbal presentations, evidence-based occupational therapy practice recommendations that identify where changes in practice have or must occur in response to new research evidence.

**OTH7## Advanced Practice: Upper Extremity Rehabilitation (2 Credits)**

This course provides advanced-level knowledge and skills in upper extremity rehabilitation and helps the student to develop the skills and knowledge to provide enhanced patient care for upper extremity injuries and conditions and to seek advanced accreditation.

**OTH8## Written Comprehensive II (0 Credit)**

This examination assesses the student preparedness to take and pass the National Board for Certification in Occupational Therapy Examination.

**OTH8## Capstone Experience Seminar (2 weeks) (1 Credits)**

This course is the beginning of the capstone experience which enables the student to start to immerse in an in-depth experience to support development of advanced skills and practice beyond a generalist in his or her chosen area(s). This seminar will be the first 2 weeks of Capstone Experience started after completion of all didactic coursework.

**OTH8## Capstone Experience (12 weeks) (6 Credits)**

This 12-week experience will enable the student to immerse in an in-depth experience to support development of advanced skills and practice beyond a generalist in his or her chosen one or more of the following areas: advanced clinical practice, research, leadership/management, teaching/academia, and program development/community engagement. Students will finalize their specific learning objectives in collaboration with a faculty mentor and complete the experience in a mentored setting with faculty mentor support. The student's doctoral level skills will be demonstrated through dissemination of an individual capstone project.

**OTH8## Capstone Project (1 Credit)**

This course is the culmination of the capstone experience where students will complete the capstone project. Completion and presentation/dissemination of a capstone project emphasizes the comprehensive understanding of the focused area(s) of capstone experience.

**OTH585 Remediation in: (1 Credit)**

Remediation of selected topics in Occupational Therapy. This course qualifies for full-time status, requiring a minimum of 480 hours of work per semester of registration.