

OCCUPATIONAL THERAPY, DSC.O.T.

Doctor of Science in Occupational Therapy

Program Director: MAJ Carly Cooper, U.S. Army

Deputy Program Director: Elaina J. DaLomba, Ph.D., OTR/L, MSW

In the Fall of 2009, Baylor University, in affiliation with the U.S. Army Medical Center of Excellence (MEDCoE) established the Doctor of Science in Occupational Therapy degree (DSc.O.T.). This degree is an advanced-practice post-professional clinical doctorate designed to meet Army occupational therapists' professional development and specialty needs. The program focuses on four pillars of foundational content: Behavioral Health, Upper Extremity Rehabilitation, Advanced Occupational Therapy Practice, and Research. Graduates of this program will be able to advance the practice of occupational therapy and expand the scope of care provided to warriors and military healthcare beneficiaries through the application of evidence-based practice and research.

Admission

Candidates for admission must hold a master's degree or entry-level doctoral degree in occupational therapy from a program accredited by the Accreditation Commission on Occupational Therapy Education. Applicants must present a grade point average and scores on the GRE General Exam that are predictive of success in this program. Candidates must also meet the entrance requirements of the Graduate School of Baylor University. Fully qualified candidates are competitively board-selected for a limited number of program spots.

Curriculum

The 18-month curriculum totals 62 semester-credit hours of didactic study and clinical rotations. The program is offered at Joint Base San Antonio, Fort Sam Houston, Texas, and Brooke Army Medical Center, in San Antonio, Texas. The 18-month curriculum begins in January, with graduation in June of the following year. The DScOT program requires the completion of an evidence-based research project. During the final portion of the course of study, each resident will defend their research study and submit the results in a written manuscript. The results of the project will be presented at an appropriate national conference and the manuscript will be submitted to a peer-reviewed journal for publication.

The curriculum is structured as follows:

Course	Title	Hours
Semester I		
January-June		
MOT 6311	Evaluation and Intervention: Behavioral Health	3
MOT 6212	Behavioral Health Residency	2
MOT 6322	Differential Diagnosis in Occupational Therapy	3
MOT 6327	Quantitative Methods	3
MOT 6325	Evaluation and Intervention: Ergonomics	3

MOT 6319	Essentials of Evidence-Based Practice and Clinical Research	3
Hours		17
Semester II		
June-October		
MOT 6116	Management of Combat and Operational Stress Control Residency	1
MOT 6223	Critical Research Appraisal	2
MOT 6315	Management of Combat and Operational Stress Control	3
MOT 6328	Quantitative Methods II	3
MOT 6341	Evaluation and Treatment of Upper-Extremity Conditions	3
MOT 6242	Upper Extremity Conditions Residency	2
Hours		14
Semester III		
October-February		
MOT 6331	Evaluation and Intervention: Burn and Trauma Rehabilitation	3
MOT 6132	Burn and Trauma Rehabilitation Residency	1
MOT 6228	UE Occupation Centered Intervention & Cultural Awareness	2
MOT 6221	UE Occupation Centered Intervention & Cultural Awareness Residency	2
MOT 6337	Field Research for Occupational Therapy	3
MOT 6317	Qualitative Methods	3
MOT 6213	Evaluation and Intervention: Post-Traumatic Stress & Polytrauma	2
MOT 6214	Post-Traumatic Stress & Polytrauma Residency	2
Hours		18
Semester IV		
February-June		
MOT 6336	Aspects of Pharmacology, Complementary and Alternative Medicine, & Nutrition in Occupational Therapy	3
MOT 6243	Advanced Hand Surgery Outcomes for Occupational Therapists	2
MOT 6344	Advanced Professional Paper Product	3
MOT 6128	Clinical Management in Army Occupational Therapy	1
MOT 6441	Upper Extremity & Behavioral Health Conditions Residency	4
Hours		13
Total Hours		62

Military Occupational Therapy (MOT)

MOT 6116 Management of Combat and Operational Stress Control Residency (1)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Provides application and integration of knowledge and skills attained in the in-depth study of combat operational stress control and the role of the occupational therapist; experienced through forty-eight hours of assessment and intervention in the soldier's work environment.

MOT 6128 Clinical Management in Army Occupational Therapy (1)

Pre-requisite(s): Successful completion of DScOT third semester courses

The Clinical Management in Army Occupational Therapy course exposes the student to the supervisory and leadership responsibilities and demands faced by clinical managers in military occupational therapy clinics. The student examines and analyzes evidence-based solutions for routine and complex managerial problems and demands in order to develop a clinical management plan.

MOT 6132 Burn and Trauma Rehabilitation Residency (1)

Pre-requisite(s): Successful completion of DScOT semesters I II courses
Applies the didactic learning from the evaluation and intervention course to the clinic setting with emphasis on assessment and intervention to minimizing devastating and lifelong disability and maximizing patient functional outcome.

MOT 6212 Behavioral Health Residency (2)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Focuses on the application of evidence-based concepts and skills for selection of occupational therapy behavioral health assessment and intervention in the clinical and operational setting and promotes the role of the occupational therapist as a member of the behavioral health team.

MOT 6213 Evaluation and Intervention: Post-Traumatic Stress & Polytrauma (2)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Emphasizes the evaluation and intervention of individuals experiencing polytrauma including post-traumatic stress disorder, traumatic brain injury, and amputation. Focuses on evaluating the occupational function, cognitive and social performance, behavioral health, amputee rehabilitation, post-surgical limb care, prosthetic selection, assistive technology associated with prosthetics, prosthetic fitting, training, and management including interventions for ADL and IADL, cognitive retraining, communication and interpersonal skills, and community reintegration. Students explore the current literature to evaluate and apply current evidence-based assessment tools and intervention methods that support occupational performance, role competence, and adaptation, quality of life, and client satisfaction outcomes incorporating to utilize for patients experiencing polytrauma. Students learn to integrate evidence-based knowledge to strengthen and/or modify occupational therapy assessment and intervention. Focuses on the special rehabilitation needs of patients with polytrauma in all settings, who enter both the military and civilian health care environments. Methods of instruction include lecture, discussion, readings, and case study analysis.

MOT 6214 Post-Traumatic Stress & Polytrauma Residency (2)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

The Post-Traumatic Stress Disorder (PTSD) & Polytrauma Residency focuses on the evaluation and intervention of individuals experiencing post-traumatic stress disorder and polytrauma, including TBI and amputation. This course integrates behavioral science knowledge as it relates to occupational therapy and occupational performance in the clinical setting, assessment and intervention including cognitive (i.e., executive functioning), ADL & IADL performance, and social/behavioral performance, and is monitored by a DScOT faculty. Students analyze evidenced-based assessments and intervention methods for their ability to address patient needs and guarantee positive outcomes in the polytrauma patient's occupational performance, role competence, adaptation, quality of life, and/or client satisfaction in the clinical, community, and work settings. The course allows for the clinical application of knowledge gained in the behavioral health and post-traumatic stress, the TBI, and the amputee course that focuses on the evaluation and intervention of polytrauma clients. This residency includes 80 hours of clinical assessment and intervention in a clinical environment. Areas of patient assessment and intervention include cognitive (i.e., executive functioning), ADL & IADL performance, and social/behavioral performance. The student learns to integrate evidence-based knowledge to strengthen and/or modify occupational therapy assessments and interventions of the Soldier, retiree, and family member diagnosed with a Traumatic Brain Injury.

MOT 6221 UE Occupation Centered Intervention & Cultural Awareness Residency (2)

Prerequisite(s): Successful completion of DScOT second semester courses. This course applies the concepts learned from the UE Occupation Centered & Cultural Awareness Intervention course to UE beneficiaries. The application of these concepts allows the student to explore, apply, and integrate the dimensions of occupation, occupation centered practice, critical reasoning, and culture during clinical intervention.

MOT 6223 Critical Research Appraisal (2)

This course introduces the student to critical appraisal of all forms of research in rehabilitation. The purpose of this course is to further develop the student's competence in carrying out and evaluating research. The student develops the skills necessary to find, critically evaluate, and synthesize the available research in order to answer individual research questions and/or create a line of research questions.

MOT 6228 UE Occupation Centered Intervention & Cultural Awareness (2)

Pre-requisite(s): Successful completion of DScOT first semester Courses
Focuses on the ability to explore, apply, and integrate the dimensions of occupation, occupation-centered practice, client-centered practice, reflection, critical reasoning, and culture and their application in the areas of assessment, intervention, and outcome measurement in occupational therapy services for upper extremity beneficiaries.

MOT 6242 Upper Extremity Conditions Residency (2)

Pre-requisite(s): Successful completion of DScOT semesters I, II, and III courses

This is a four-month residency emphasizing the clinical evaluation and treatment of the upper-extremity injured or diseased patient presenting to occupational therapy, under the mentorship of an orthopedic surgeon.

MOT 6243 Advanced Hand Surgery Outcomes for Occupational Therapists (2)

Pre-requisite(s): Successful completion of DScOT semesters I, II, and III courses

This overview of the hand surgeon's model of evaluation and treatment of musculoskeletal disease and trauma and review of outcomes in advanced surgical techniques requires the development and application of a post-operative occupational therapy protocol for treatment of a specialized case.

MOT 6311 Evaluation and Intervention: Behavioral Health (3)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Emphasizes the advanced evaluation and treatment of behavioral health conditions, introducing the student to the behavioral health knowledge base and evidence-based practice to integrate critical reasoning and evidence-based practice into occupational therapy behavioral health treatment settings.

MOT 6315 Management of Combat and Operational Stress Control (3)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

An in-depth study of combat operational stress control and the role of the occupational therapist, experienced through forty-nine hours of didactics and four days of field training in a simulated combat environment. Includes a four-day field training exercise and a twenty-one-hour project and practicum.

MOT 6317 Qualitative Methods (3)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Examines qualitative research methods used to enhance evidence-based research for occupational therapists through the analysis of published healthcare research and the employment of qualitative research methodology. Student will also select an appropriate qualitative research method to collect and analyze data associated with his or her research project.

MOT 6319 Essentials of Evidence-Based Practice and Clinical Research (3)

Pre-requisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy

Includes the integration of best evidence and best practice concepts as well as advanced concepts, techniques, and technologies used for the scientific inquiry of applied clinical research. Emphasis is placed on refining research designs for individual projects and preparing a research protocol for approval by the Institutional Review Board.

MOT 6322 Differential Diagnosis in Occupational Therapy (3)

Pre-requisite(s): Successful completion of DScOT first semester Courses
Poses discussion of the medical history and occupational therapy examination findings of somatic and visceral disorders with reference to their influence on occupational therapy upper extremity musculoskeletal diagnosis, evaluation, and intervention.

MOT 6325 Evaluation and Intervention: Ergonomics (3)

Pre-requisite(s): Successful completion of DScOT first semester Courses
Includes the development of advanced clinical skills in evaluating environments, tools, and equipment for ergonomic intervention. Presents the study of work and ergonomic principles to enhance occupational performance. Includes health promotion and wellness, environmental health engineering, and health risk management.

MOT 6327 Quantitative Methods (3)

Pre-requisite(s): Successful completion of DScOT first semester Courses
Includes in-depth discussion and analysis of the research process including measurement theory, experimental design, hypothesis construction and testing, critical evaluation of research, rating scales, sampling, indices of validity and reliability, statistical analysis, and the appropriate use and interpretation of statistical tests.

MOT 6328 Quantitative Methods II (3)

Pre-requisite(s): MOT 6327 Continuation of Quantitative Methods I in which students continue their work with a Faculty Research Advisory Committee on a clinically relevant research project
Specific goals during this course include the completion of a literature review and the beginning of pilot testing and data collection. Also included is material in statistics, which develops the student's use of advanced statistical analysis techniques, including the use of SPSS.

MOT 6331 Evaluation and Intervention: Burn and Trauma Rehabilitation (3)

Pre-requisite(s): Successful completion of DScOT semesters I II courses
Focuses on the evaluation and intervention involved in burn and trauma rehabilitation as it relates to occupational therapy practice. Special emphasis is placed upon assessment and intervention to minimize devastating and lifelong disability and maximize patient functional outcomes both in the clinic and operational environment.

MOT 6336 Aspects of Pharmacology, Complementary and Alternative Medicine, & Nutrition in Occupational Therapy (3)

Pre-requisite(s): Successful completion of DScOT semesters I II courses
Focuses on the role and relationship of nutrition, pharmacology, and complementary/alternative medicine in the treatment of specific populations by occupational therapists where emphasis is placed on medical indications and potential effects of drugs and alternative/complementary medicine as well as nutrition on occupational therapy interventions.

MOT 6337 Field Research for Occupational Therapy (3)

Pre-requisite(s): Successful completion of DScOT semesters I II courses
Builds upon the student's familiarity with the occupational therapy knowledge base, quantitative and qualitative research methodologies, and critical/clinical reasoning and includes the development of a clinical research question, completion of a comprehensive literature review/systematic review, and writing a research protocol that includes informed consent documents.

MOT 6341 Evaluation and Treatment of Upper-Extremity Conditions (3)

Pre-requisite(s): Successful completion of DScOT semesters I, II, and III courses
Emphasizes the evaluation, diagnosing, and treatment of the upper-extremity injuries or diseases of patients presented to occupational therapy. Provides fifty-six hours of didactics including all diagnoses related to upper-extremity trauma and disease. Includes pathophysiology of wounds, arthritides, radiology, laboratory tests, and pharmacology.

MOT 6344 Advanced Professional Paper Product (3)

Pre-requisite(s): Successful completion of DScOT semesters I, II, and III courses
Focuses on the completion of the manuscript from the clinical research project with the goal of publication in a peer-reviewed journal and presentation to the occupational therapy community.

MOT 6441 Upper Extremity & Behavioral Health Conditions

Residency (4)

A four-month course emphasizing the clinical evaluation and treatment of the Upper Extremity injured or diseased patient presenting to occupational therapy with comorbid Behavioral Health symptoms of kinesiophobia, pain catastrophizing, and post-traumatic stress from injury. 160 hours of clinical assessment and intervention including all diagnoses related to BH & UE.