

## **RHAB (Rehabilitative Health)**

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### **RHAB 1010 - Medical Terminology for Rehabilitative Health**

**(1 Credit)**

This course includes an introduction to word parts building medical terms, instruction in organization of the body, directional terms, abbreviations and an overview of the different systems in the body. Students are expected to complete the course via progression through course modules. The course is offered both on-site and on the Web. Lecture: 1 hour

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### **RHAB 1020 - Fundamentals of Palpation and Body Movement Skills**

**(3 Credits)**

This course is designed to focus on the concepts and principles of palpatory anatomy and kinesiology. The purpose of this course is to emphasize the development of skilled palpation as a fundamental component of effective manual therapy technique. A solid knowledge base and understanding of how muscles and joints interact based upon their structure and function will be created and enhanced through a Functional Skills Model. This Functional Skills Model combines palpatory anatomy and kinesiology, which help ingrain the accurate location of various anatomical structures through kinesthetic experience, quality of touch, and effective client communication. This model incorporates a unique, experimental, online activities, and participatory class environment, where students are able to retain information while learning to use critical and creative-thinking processes. In the Functional Skills model students will palpate the targeted muscle, which will help students gain a better understanding of the designated muscle's location, size, texture, role in posture, and dynamic movement.

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### **RHAB 1030 - Pathophysiology for Rehabilitative Health Practitioners**

**(3 Credits)**

This course includes a systems study of pathological conditions. The structure and function of each organ system is presented. Discussion will involve the etiology, signs, symptoms, diagnostic procedures, common medical/surgical management and the prevention of pathological processes as they affect each system. Students will understand the implications of pathological processes on physical function and contraindications and precautions for treatment. (Prerequisite: BIOL 1020 or 1070) Lecture: 3 hours

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### **RHAB 1100 - Foundational Kinesiology**

**(3 Credits)**

This online course uses a regional approach to studying the anatomical structures that create both stability and movement in the human body. With a strong focus on musculoskeletal anatomy, the student will be guided through a basic analysis of how functional movement occurs and how the body interacts functionally with the environment. Each student will complete a muscle mapping project where the attachment points of the skeletal muscles are drawn on a real miniature skeletal model.

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### **RHAB 1110 - Kinesiology**

**(4 Credits)**

This course covers the study of human movement and locomotion by combining human anatomy with aspects of biomechanics, muscle physiology, physical laws of gravity, leverage, and motion. This course deals with specific kinesiological functions of the musculoskeletal system with application to patient-related activities for the physical therapist assistant and the occupational therapy assistant. (Note: Restricted to OCTA, PHTA, TMSG and TMSC students. Prerequisite: BIOL 1010 or 1070) Lecture: 2 hours, Lab: 3 hours

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### **RHAB 2010 - Nutrition Basics**

**(3 Credits)**

This is an online interactive course designed to prepare students to understand how carbohydrates, fats and proteins function in the body; how each macronutrient, alone and when combined, undergoes integrated metabolism within tissues; and how the macronutrients integrate to affect overall metabolism, disease risk and recovery. Additionally, this course will prepare students to understand how micronutrients (vitamins and minerals) play a significant regulatory role as well as the interaction between nutrients. Students will explore the variability in micronutrient requirements between individuals, outline the signs and symptoms associated with both nutrient deficiency and excess. Other topics presented within this course are the functions of nutrients in the production, quality and consumption of foods and how they are to be prepared consistent with food safety precautions, budgeting for nutritious foods, nutrition across the lifespan, and current topics in nutrition.