KINE 4715 – Clinical Biomechanics

Clinical biomechanics is an upper-year Kinesiology course analyzing the association between biomechanics and the pathogenesis, treatment and rehabilitation of musculoskeletal injuries, diseases, and disorders. This course will review fundamental biomechanics principles as they relate to clinical fields, examine traditional and emerging measurement techniques for quantifying human biomechanics, and explore how biomechanics can be used to identify pathological movement, and inform prevention, treatment and rehabilitation decisions. Lectures will be divided into two sections focusing on the lower extremity and upper extremity, with some course time dedicated to hands-on measurement of biomechanical data in the laboratory.

Pre-Req: KINE 2465
Co-Req or Pre-req: KINE 3482