TITLE: Cadaver Extremity Anatomy Review for Physical Therapy Clinicians

COURSE DESCRIPTION: Practicing physical therapy clinicians are often removed in time from the opportunity for laboratory study of human gross anatomy. This eight-hour course will serve as a review of anatomy of the upper and lower limbs using cadaver prosections and will include both classroom and laboratory components. Review will cover normal human gross anatomy with emphasis on structure of the musculoskeletal and neuromuscular systems in adults. One-hour lectures of each extremity region will be followed by one-half hour case presentations to facilitate consideration of differential diagnosis for both the upper limb and lower limb, then two-and-one-half hours of hands-on gross laboratory examination of human cadavers, respectively will follow. Study of the following structures and features will be offered: bones, joints, muscles, tendons, joint capsules, ligaments, vessels and nerves. This course is designed to reinforce understanding of the neuromusculoskeletal systems of the human body for the practice of physical therapy. After completing this course, participants will have renewed understanding of how structure of the human body links to clinical treatment of commonly encountered types of dysfunction.

LEARNING OBJECTIVES:

At the conclusion of this course, learners will be able to:

1. Identify gross anatomy features of the extremities and discuss their clinical relevance, particularly as they pertain to the following systems: Skeletal, Muscular, Vascular, and Nervous.

2. Identify and describe major extremity joints as well as locations, attachments and functions of stabilizing structures.

3. Integrate and interpret knowledge of muscle innervation, attachments and motions produced by muscular contraction.

4. Trace pathways of neural and vascular structures within the upper and lower limbs to facilitate understanding of contributions of each to function.
SPEAKER INFORMATION:

Steve Bitticker PT, PhD – Emory & Henry College, School of Health Sciences, Marion, VA

Steve Bitticker, PT, PhD has 14 years of experience in higher education. He has taught human gross anatomy for 12 years. He serves as co-director for the interprofessional education courses in Human Gross Anatomy (lecture and laboratory for physical therapy and occupational therapy programs) at the Emory & Henry College School of Health Sciences. Prior to beginning his academic career, he was a full time physical therapy clinician for 22 years. His research interests include topics related to human anatomy.

John Graham, PhD– Emory & Henry College, School of Health Sciences, Marion, VA
John Graham, PhD is a neurobiologist and a member of the Society for Neuroscience, the American Association of Anatomists, and the Human Anatomy and Physiology Society. He serves as co-director for the interprofessional education courses in Human Gross Anatomy (lecture and laboratory for physical therapy and occupational therapy programs) at the Emory & Henry College School of Health Sciences. His research interests and background include work on motor systems and sensory systems in the brain, and a current focus is on Alzheimer's disease.

Eric Coley PT, DPT, ATC, EdD (ABD) – Emory & Henry College, School of Health Sciences, Marion, VA

Eric Coley, PT, DPT, ATC, EdD (ABD) is a physical therapist and serves as Director of Clinical Education within the Department of Physical Therapy at Emory & Henry College, a position that he has held since 2012. A graduate of the Duke University Doctor of Physical Therapy program, Dr. Coley is pursuing an educational doctoral degree in Educational Administration through the University of Florida. His research interests include Interprofessional Education and musculoskeletal issues.