

Dean's Colloquium

Dr. Eric Lewallen, Assistant Professor
Department of Biological Sciences, Hampton University



When: Wednesday, March 22, 2023

Where: Turner 129

Time: 3:00 – 3:20 pm, Q&A: 10 min

Title: Interdisciplinary Strategies for Musculoskeletal Tissue Engineering

Abstract: As part of the aging process, human musculoskeletal tissues (e.g., bone, cartilage, tendon, ligament, muscle) are susceptible to injury, degeneration, and disease. Every year, millions of Americans require clinical interventions to relieve musculoskeletal pain, restore joint function, and regain mobility. However, depending on symptom severity, clinical complications can still result in the permanent loss of mobility and function (e.g., orthopedic implant failure, osteoarthritis) in some patients. In this presentation, I will focus on interdisciplinary approaches to investigating novel musculoskeletal therapies. Specifically, stem cell engineering studies, tissue regeneration technologies, bioinformatics approaches, and drug development initiatives will feature robust platforms for undergraduate, graduate and post-doctoral training.

Bio: Dr. Eric Lewallen earned his PhD in Biological Sciences from the University of Toronto in 2012, and was a post-doctoral research fellow at Mayo Clinic before joining Hampton University as an Assistant Professor of Biology in 2017. Dr. Lewallen mentors undergraduate and graduate students interested in both biomedical and environmental research. He has authored more than 48 peer-reviewed scientific articles, is a co-investigator on three federally-funded research programs, and serves as an associate editor for two scientific journals.