

"The best part of teaching is seeing students learn what an incredible impact exercise can have as a tool to improve performance, health and well being."

The best part of teaching is doing active things in the classroom – running, jumping, moving, playing. This is how true understanding of the value of exercise is shaped.

Using innovative technologies, duManoir is dedicated to creating an exceptional student experience at UBC.

The goal of duManoir's work is to foster a lifelong appreciation for learning.

For duManoir, this means ensuring that students have the skills to keep learning. duManoir goal is to ensure that learning impacts students both in and beyond the classrooms of the School of Health and Exercise Sciences. Working collaboratively with the Centre for Teaching and Learning, duManoir is driven to generate, identify and share new approaches to effective teaching strategies in health and exercise sciences. And, most importantly, to know what an incredible impact exercise can have as a tool to improve performance, health and well being.

COURSES & TEACHING

School of Health and Exercise Sciences Lab Director

HMKN 200: Exercise Physiology I

HMKN 310: Exercise Physiology II

HMKN 311: Exercise Prescription

HMKN 312: Laboratory Techniques in Cardiorespiratory Physiology

HMKN 391: Advanced Functional Anatomy

HMKN 409: Advanced Training Techniques

HMKN 336: Tissue Injury & Repair



GREG DUMANOIR

About

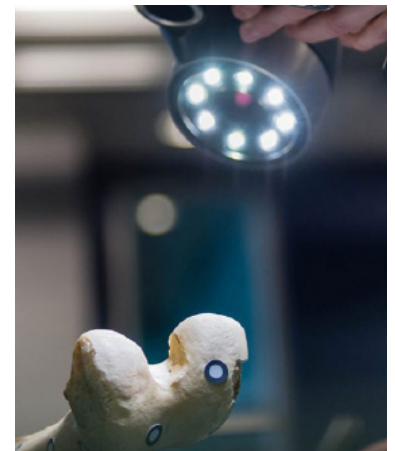
DuManoir was active from a young age. Whether it was soccer, volleyball or basketball, duManoir could be found playing any and all types of sports. It was in high school that duManoir was first exposed to the discipline of exercise sciences and he saw a direct link to his athletic endeavours. Fitness 10, 20, 30 introduced duManoir to exercise prescription, exercise training and olympic weightlifting, and a passion was born. DuManoir wanted to know more. At the University of Alberta, duManoir completed his Bachelor's of Science in Kinesiology and he was hooked. Driven by his interests in classes like Exercise Physiology, Exercise Testing and Prescription, Applied Resistance Training and Advanced Training Methodologies, duManoir then pursued athletic injury management and began to build his experience as a student athletic trainer for the Varsity Women's Basketball team. While exercise sciences was already a passion of duManoir's it was during the completion of the BSc Kinesiology where he performed a research study in which he saw his passion evolve as a process of being in the lab and collecting and analyzing data. A driving factor was duManoir's passion for working with participants on a daily basis and seeing how exercise impacted their performance. Following the successful completion of a MSc at the University of Alberta, duManoir began his PhD at University of Western Ontario at the Canadian Center for Activity and Aging. Building on his the strong applied and practical perspective using exercise as a training tool in his undergraduate and Master's study, duManoir's PhD explored changes in oxygen delivery with aging using basic science providing him with the comprehensive picture of the impact of exercise.

duManoir brings a keen interest in environmental physiology to his work as an applied cardiovascular physiologist. For this reason duManoir works and teaches across the School and campus, with his generalist approach having brought him to the peaks of Everest with the Centre for Heart, Lung Vascular Health research group to the court working as an applied sport scientist with UBC Okanagan's Varsity Women's Volleyball team.

FEATURED PROJECT

The Use of 3D Imaging and Rapid Prototyping in Undergraduate Education

In large anatomy classes, the use of cadavers just isn't feasible. Yet, students benefit from the hands-on experience as they learn the countless functions of the human body. With the aim to improve the student experience, duManoir started a revolutionary project to generate foam models generated from 3D images. In 2016, the project received the UBC Okanagan ALT Fund to 3D print accurate and detail models of human anatomy. Medical students generated dissections of cadavers, which were then be scanned using handheld 3D scanners. By generating 3D images, duManoir and his students were able to create CNC-milled models will be used in laboratory settings within Human Kinetics classes as well as a comprehensive online catalogue of 3D images. The project ensures that students have access to detailed, anatomically correct models for study with the ability to 3D print these models for use in individual study.



THE UNIVERSITY OF BRITISH COLUMBIA

School of Health and Exercise Sciences

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