

Welcome to **LISC596 Introduction to the QHS DISCO Labs** "

If you take out the team in teamwork, it's just work. Now who wants that?

-Matthew Woodring Stover





Dr Susan Boehnke



Dr Nicolle Domnik



Dr Charlie Hindmarch







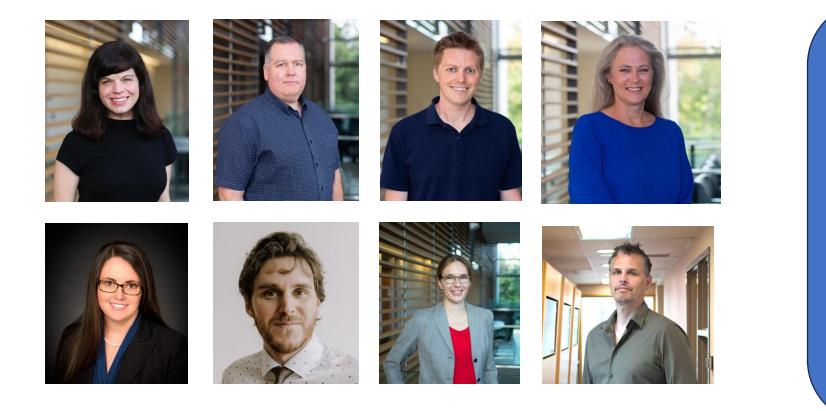
Dr Yat Tse

Jen Thiele

Christie Gilmore

Ethan Heming

2024-2025 Cohort



56 students 12 teams

Vision for LISC596

"To provide experiential learning to trainees so that they have the competencies required to successfully contribute to teamscience".

The Problem(s)

No one teaches Undergraduate students the things that Graduate supervisors need them to know



Research



Teaching



Research Funding



Vision and leadership



Mentorship and EDI



Team Work

The importance of working within a multidisciplinary team is being overlooked in undergraduate education

Sample Size	101,580 research papers
Mean	7.2 authors
Minimum	1 author
25th Percentile	4 authors
50th Percentile (Median)	6 authors
75th Percentile	9 authors
Maximum	2,902 authors

In our sample of 101,580 research papers, the median research paper was written by 6 authors, and the majority had between 4 and 9 authors. Only 5% were written by single authors (n=5,280).

Undergraduate student CVs are not compelling to employers, medical school, or graduate school



• <u>In addition to satisfying your</u> <u>degree requirements you will:</u>

- Develop transferable skills
- Develop discipline specific skills
- Learn and develop soft skills
- CONTRAC* G
- Grow and develop your CV
 - Gain a unique perspective on #TeamScience in 2024/5

A.

GROWTH AND DEVELOPMENT

TRAINING

Gantt chart and project planning

Constitution, and team dynamics

Lay audience presentation

Presentation skills

Ethics

Notice of Intent

Reading the literature

Goal setting

Health and safety

Biostatistics

Al to superpower research

Regulatory affairs

CV and careers workshop

Reflective teams

COURSES

TCPS Core 2

QU Health and Safety Awarness

WHMIS

Human Tissue, blood or bodily fluids

Ethics

Sex and gender in biological sciences (CIHR course x3)

Deliverables

Notice of Intent

Presentation to a lay audience

Proposal of Research

Budget Justification

Methods/SOP

Public Engagement

Literature Review

Deliverables

Notice of Intent

Presentation to a lay audience

Proposal of Research

Budget Justification

Methods/SOP

Public Engagement

Literature Review

Microcredentials (LINKEDIN)

Pipetting 101

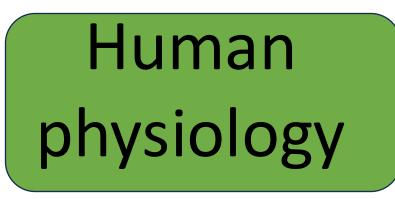
SDS PAGE and Western Blotting

Nucleic Acids

More to come...

B.

RESEARCH PROJECTS



Molecular

biology

Does Vaping Impact Cardiovascular and Sleep Parameters in Young Adults? A Prospective Feasibility Study

Investigating diet-induced transcription differences in the ARC and PVN of mice with different mitochondrial DNA (mtDNA) backgrounds

Neurotech

Characterizing cortical responses during kinarm sensorimotor tasks using fNIRs in healthy young adults



C.

HOW DO YOU GET INVOLVED?



Prerequisites

Minimum 3rd year (level 3) standing, a cumulative GPA of 3.2 or higher, registration in the BHSc, LISC, BIOL, CHEM or BCHM Program, and acceptance by a supervisor.

Priority given to 4th Year students

Exclusion

Maximum 12.0 units from (ANAT 499/12.0; ANAT 599/6.0; BCHM 421/6.0; BCHM 422/6.0; BCHM 594/3.0; BCHM 595/6.0; BCHM 596/12.0; CANC 499/12.0; DISC 591/3.0; DISC 592/3.0; DISC 593/3.0; DISC 594/3.0; DISC 598/6.0; DISC 599/6.0; HSCI 591/3.0; HSCI 592/3.0; HSCI 593/3.0; HSCI 594/3.0; HSCI 595/3.0; HSCI 598/6.0; HSCI 599/6.0; LISC 499/12.0; LISC 594/3.0; LISC 595/6.0; LISC 596/6.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0; REPD 499/12.0).

(Note: BIOL and CHEM research students will also be excluded if they are already enrolled in more than 6.0 units of research courses).



Discovery Labs @ DBMS



Section 1 of 4

Student intake for DISC599

X :

B I <u>U</u> ⇔ X

This intake form is designed for undergraduate students who are interested in enrolling on DISC599 research program at Queen's University. The information collected here will be used to facilitate the formation of teams.

Please only input a valid <u>Queen's University email address</u>. Applications with non-QU addresses (e.g. Gmail) will be discarded.

P

Email	*

Valid email

This form is collecting emails. Change settings

First Name *

Short answer text

Last Name (Family Name) *

Short answer text

Student ID *

Short answer text

