

Human Movement Laboratory

Instructor: *Mark A. Schmuckler*
Office: *AA437*
Office Hours: *Tuesday, 12:00 – 1:00 PM, or by appointment*
Email: *marksch@utsc.utoronto.ca*

Course Hours: *Wednesday, 7:00 – 9:00 PM*
Course Location: *SW316*

Teaching Assistants:	<i>Olivia Podolak</i>	<i>Carly Prusky</i>
Office:	<i>HW302E</i>	<i>HW302E</i>
Office Hours:	<i>T. B. A.</i>	<i>T. B. A.</i>
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Overview of Course

The purpose of PSYC05 is to introduce students to the basic principles underlying human movement and motor control. To accomplish this goal, we will examine a range of topics on human movement, drawn from the areas of eye-movements, balance control, and locomotion. Along with gaining conceptual movement about human movement, you will gain hands-on experience in actually collecting data regarding human movement data via a variety of simple and sophisticated behavioral data gathering systems. Finally, in this course you will become acquainted with the process of analyzing the data gathered in movement studies. Because the data gathered in studies on human movement is complex, data analysis techniques are similarly complex, often involving the use of spatial frequency analysis, and so on.

Course Requirements

There are multiple course requirements. First, you will be asked to complete two assignments based on the collection, analysis, and interpretation of the human movement data that you collect in this course. Second, you will be expected to master information involving basic aspects of motor control and human movement. This information will be presented to you via a selection of course readings, as well as through class lecture. Your knowledge of this material will be assessed through standard exam procedures. A rough outline of the lecture topics for this course, as well as the due dates and relative weighting of the assignments and the exams, is given below.

General Topics, Readings, Course Assignments, and Due Dates

Below is an APPROXIMATE outline of the readings and topics to be covered in class. More specific information concerning each week's material will be given as the class progresses.

<u>Week</u>	<u>Topic</u>	<u>Reading</u>	<u>Assignment</u>	<u>Value</u>
Week 1	Introduction to Class			
Week 2	Motor Control: An Overview	T. B. A.		
Week 3	Motor Control Methodology	T. B. A.		
Week 4	Postural Control: An overview of balance	T. B. A.	Assignment 1	10%
Week 5	Postural Control: Analysing postural data	T. B. A.	-11/2	
Week 6	Postural Control: Data collection & analysis	T. B. A.		
Week 7	Postural Control: Data collection & analysis	T. B. A.		
Week 8	Exam 1 - Olivia practice + mark			25%
Week 9	Locomotion: An overview of walking	T. B. A.	Assignment 2	20%
Week 10	Locomotion: Analysing walking data	T. B. A.	-10/10	
Week 11	Locomotion: Data collection and analysis	T. B. A.		
Week 12	Locomotion: Data collection and analysis	T. B. A.	Assignment 3	20%
T. B. A.	Exam 2 - me practice + mark		-15/2	25%

Olivia
office
hours

Olivia
class

me
office
hours

me
office
hours

Exam period

All assignments are due by at the beginning of class. Penalty for unjustified late assignment: 1 mark per day (i.e., 1 day late, a B becomes a B-, and so on).