



# CAPILANO UNIVERSITY

COURSE OUTLINE		
<b>TERM:</b> Fall 2018	<b>COURSE NO:</b> HKIN 230	
<b>INSTRUCTOR:</b>	<b>COURSE TITLE:</b> Human Motor Behaviour I	
<b>OFFICE: LOCAL:</b> <b>E-MAIL:</b> @capilanou.ca	<b>SECTION NO(S):</b>	<b>CREDITS:</b> 3.0
<b>OFFICE HOURS:</b>		

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

## COURSE FORMAT

Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

## COURSE PREREQUISITES

ENGL 100

## CALENDAR DESCRIPTION

This course examines the processes underlying human movement and the factors influencing acquisition, performance and movement control during the learning of motor skills. Applications related to motor skill acquisition and learning are considered as implemented in health, fitness, sport and education settings.

## COURSE NOTE

HKIN 230 is an approved Science and Technology course for Cap Core requirements.  
HKIN 230 is an approved Science course.

## REQUIRED TEXTS AND/OR RESOURCES:

*Magill, R. A. (2017). Motor Learning and Control: Concepts and Applications (11<sup>th</sup> edition). Columbus, OH: McGraw-Hill Education.*

## COURSE STUDENT LEARNING OUTCOMES

On successful completion of this course, students will be able to do the following:

1. **Describe** the fundamental principles, concepts and terms utilized in the field of motor learning and control.
2. **Demonstrate** critical thinking and problem solving skills in the behavioural analysis of motor learning and performance using methods of measurement, analysis and computation.

3. **Comprehend** the role of knowledge related to results and transfer of learning in motor skill acquisition.
4. **Evaluate** motor learning and control in various settings using systematic observation, developing and testing hypothesis, analyzing findings and interpreting results.
5. **Explain** the role of cognition, attention and memory in the learning and acquisition of motor skills and human movement.
6. **Apply** specific strategies and applications related to motor skill acquisition from the field of motor learning and control to fitness, sport, education and rehabilitation settings.

**Students who complete this Science and Technology course will be able to do the following:**

1. Apply numerical and computational strategies to solve problems
2. Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).
3. Demonstrate how a problem, concept, or process can be modeled numerically, graphically, or algorithmically
4. Explain how scientific inquiry is based on investigation of evidence and evolves based on new findings
5. Participate in scientific inquiry and communicate the elements of the process, including making careful and systematic observations, developing and testing a hypothesis, analyzing evidence, and interpreting results

**COURSE CONTENT:**

WEEK	TOPIC (S)	REQUIRED READINGS/ ACTIVITIES
1	Course Overview & Lab Group Formation	
	<b>Part I: Motor Control Concepts</b>	
2	Introduction to Motor Learning & Control Concepts & Applications The Classification of Motor Skills Lab 1: Gentile's Taxonomy of Motor Skills	Chapter 1 Schmidt & Lee (2005). The Evolution of a Field of Study. <i>CapU Library Reserves</i> Moodle Practice Quiz #1
3	The Measurement of Motor Performance Neuromotor Basis for Motor Control Lab 2: Measuring & Analyzing Data	Chapter 2 & 4 Connect Practice Quiz #2 & #3
4	Motor Control Theories	Chapter 5 Connect Practice Quiz #4
5	MIDTERM	

	<b>Part II: Motor Learning Concepts</b>	
<b>6</b>	Defining & Assessing Learning Lab 3: Spontaneous Gait Transition	Chapter 11 Connect Practice Quiz #6
<b>7</b>	The Stages of Learning (Skill Acquisition) Transfer of Learning Lab 4: Performance Changes During Practice Lab 5: Bilateral Transfer	Chapter 12 & 13 Connect Practice Quiz #7 & #8
<b>8</b>	Attention as a Limited Capacity Resource	Chapter 9 Connect Practice Quiz #9
<b>9</b>	Human Information Processing MIDTERM	Schmidt & Lee (2005). The Evolution of a Field of Study. <i>CapU Library Reserves</i>
	<b>Part III: Motor Learning &amp; Control Performance &amp; Cognition</b>	
<b>10</b>	Attention & Performance	Schmidt & Lee (2005). The Evolution of a Field of Study. <i>CapU Library Reserves</i> Moodle Practice Quiz #11
<b>11</b>	Memory Components, Forgetting & Strategies	Chapter 10 Connect Practice Quiz #13
	<b>Part IV: Motor Learning &amp; Control Applications</b>	
<b>12</b>	Demonstration & Verbal Instructions Augmented Feedback Lab 6: Knowledge of Performance Priorities	Chapter 14 & 15 Connect Practice Quiz #14 & #15
<b>13</b>	Practice Variability & Specificity The Amount & Distribution of Practice & Whole & Part Practice Lab 7: Distribution of Practice Lab 8: Whole & Part Practice	Chapter 16, 17 & 18 Connect Practice Quiz #16, #17 & #18
<b>14 - 15</b>	FINAL EXAM PERIOD	

## EVALUATION PROFILE

ASSESSMENT	% OF FINAL GRADE	INDIVIDUAL/GROUP
Midterm Examination #1	25%	Individual
Midterm Examination #2	25%	Individual
Laboratory Assignments	20%	Individual
Final Examination	30%	Individual
<b>Total</b>	<b>100%</b>	

The assignment structure for this course is determined by the instructor in accordance with the learning outcomes outlined above. Please refer to the course syllabus and Moodle site for a detailed breakdown

**Midterm Exam(s):** There will be two midterm exams covering all material up to and including the week before the midterm. The format of the exams will be determined by the instructor and may include a combination of true/false, multiple choice, matching, fill in the blanks, short answer and long answer questions

**Lab Assignments:** Lab assignments will be assigned to interpret and apply common laboratory procedures in motor learning and control and are related to lecture material. Lab assignments will be due one-week after the completion of the lab class.

**Final Exam:** The final exam will be drawn from all lecture material following the second midterm exam and will be structured similarly to the midterm exam. The final exam will be scheduled at a date to be determined by the Registrar's Office. Please plan to be available to write the final exam at any point during the exam period. If you must make travel arrangements, assume the final exam will be held on the final day of the exam period, and plan accordingly.

## GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

### Incomplete Grades

Grades of Incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

**Late Assignments**

Assignments are due at the beginning of the class on the due date listed. Late assignments will be subject to a late penalty of 10% per day. If you anticipate handing in an assignment late, please consult your instructor beforehand

**Missed Exams/Quizzes/Labs etc.**

Make-up exams, quizzes and/or tests are given at the discretion of the instructor. They are generally given only in medical emergencies or severe personal crises. Some missed labs or other activities may not be able to be accommodated. Please consult with your instructor.

**Attendance**

Regular class attendance, and participation in course activities and assignments, is expected and likely essential to successfully achieving the course learning outcomes. Students are responsible for any and all content and instructions communicated during scheduled classes, in course handouts, and (if applicable) via course e-mail and websites. In cases where participation by all students is essential for conducting the planned instructional activities, attendance may be mandatory.

**English Usage**

Students are expected to proofread all written work for any grammatical, spelling and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

**Electronic Devices**

Students may use electronic devices during class for note-taking and research purposes only

**On-line Communication**

Outside of the classroom, instructors will (if necessary) communicate with students using either their official Capilano University email or Moodle; please check both regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

**UNIVERSITY OPERATIONAL DETAILS****Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilanou.ca/student-life/>

**Capilano University Security: download the [CapU Mobile Safety App](#)**

**Policy Statement (S2009-06)**

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

**Academic Integrity (S2017-05)**

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy S2017-05 for more information: <http://www.capilanou.ca/about/governance/policies/Policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

**Academic dishonesty** is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

**Cheating:** Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

**Fraud:** Creation or use of falsified documents.

**Misuse or misrepresentation of sources:** Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

**Plagiarism:** Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

**Self-Plagiarism:** Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

**Prohibited Conduct:** The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,

- Assisting or attempting to assist another person to commit any breach of academic integrity.

### **Sexual Violence and Misconduct**

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including [B.401 Sexual Violence and Misconduct Policy](#) and [B.401.1 Sexual Violence and Misconduct Procedure](#).

**Emergencies:** Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

### **DEPARTMENT OR PROGRAM OPERATIONAL DETAILS**

#### **Participation**

This mark, if included as part of the assessment items by the instructor, is based on both the frequency and quality of the student's comments, questions, observations, and involvement, with the emphasis on quality. The quality is determined by, among other things, the relevance, insight and clarity of remarks. Preparing the required readings will support a student's ability to participate. The participation mark is also influenced by professionalism (as described below), attitude and punctuality.

#### **Professional Behaviour**

Students must demonstrate a professional attitude and behaviour toward work, fellow students and their instructors. Each student should demonstrate reliability, respect for and cooperation with colleagues. A willingness to work calmly and courteously under difficult conditions as well as a determination to achieve first-class work while meeting deadlines is necessary. Students should have respect for equipment and systems. Students should display a constructive response to criticism. Professional behaviour includes appropriate language use. Appropriate language use involves using respectful, moderate, and inclusive language at all times.

#### **Copyright Policy**

Students are expected to familiarize themselves with and abide by the University's Copyright Policy. The University's Copyright Policy is published on the University website.