



ORIGINAL COURSE IMPLEMENTATION DATE: January 1994
 REVISED COURSE IMPLEMENTATION DATE: September 2018
 COURSE TO BE REVIEWED: (six years after UEC approval) March 2024
 Course outline form version: 09/15/14

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: KIN 368		Number of Credits: 4 Course credit policy (105)																	
Course Full Title: Advanced Motor Learning and Control																			
Course Short Title (if title exceeds 30 characters): Adv Motor Learning & Control																			
Faculty: Faculty of Health Sciences		Department (or program if no department): Kinesiology																	
Calendar Description: <p>An in-depth consideration of the principles of motor learning and control with applications drawn to the teaching of motor skills in physical education, sport, and other physical activity situations.</p> <p>Note: Students with credit for KPE 368 cannot take this course for further credit.</p>																			
Prerequisites (or NONE):		KIN 268 (formerly KPE 268).																	
Corequisites (if applicable, or NONE):		NONE																	
Pre/corequisites (if applicable, or NONE):		NONE																	
Equivalent Courses (cannot be taken for additional credit) Former course code/number: KPE 264, KPE 368 Cross-listed with: Equivalent course(s): KPE 264, KPE 368 <i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>		Transfer Credit Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Transfer credit requested (OReg to submit to BCCAT): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No To find out how this course transfers, see bctransferguide.ca .																	
Total Hours: 60 Typical structure of instructional hours: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: center;">45</td></tr> <tr><td>Seminars/tutorials/workshops</td><td></td></tr> <tr><td>Laboratory hours</td><td style="text-align: center;">15</td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;">Total</td><td style="text-align: center;">60</td></tr> </table>		Lecture hours	45	Seminars/tutorials/workshops		Laboratory hours	15	Field experience hours		Experiential (practicum, internship, etc.)		Online learning activities		Other contact hours:		Total	60	Special Topics Will the course be offered with different topics? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit <i>Note: The specific topic will be recorded when offered.</i>	
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Seminars/tutorials/workshops																			
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Online learning activities																			
Other contact hours:																			
Total	60																		
		Maximum enrolment (for information only): 36 Expected frequency of course offerings (every semester, annually, every other year, etc.): twice annually																	
Department / Program Head or Director: Alastair Hodges		Date approved: October 2017																	
Faculty Council approval		Date approved: October 2017																	
Campus-Wide Consultation (CWC)		Date of posting: November 24, 2017																	
Dean/Associate VP: Joanne MacLean		Date approved: October 2017																	
Undergraduate Education Committee (UEC) approval		Date of meeting: March 23, 2018																	

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Describe effective research methodology and the links between theory, experimentation and practice
2. Discuss various theories and models proposed to explain the process and nature of learning
3. Explain the structure and function of human memory
4. Structure an environment that will, from a theoretical perspective, optimize motor learning and performance
5. Identify the elements of neuro-muscular integration which evolve from the learning process and form the basis for human motor control
6. Explain components of the central nervous system and the effects of disease on these structures
7. Demonstrate ability to conduct experiments in motor learning and control in a laboratory setting

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lecture, laboratories, demonstrations, small group practice, discussion, audiovisual presentation

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Schmidt, R.A. & Wrisberg, C.A.	Motor Learning and Performance	<input checked="" type="checkbox"/>	Human Kinetics	2004
2.	Magill, R.A.	Motor Learning Concepts and Applications	<input checked="" type="checkbox"/>	McGraw-Hill	2001
3.	Shumway-Cook, A. & Wollacott, M.H.	Motor Control: Translating Research into Clinical Practice	<input checked="" type="checkbox"/>	Wolters Kluwer	2012
4.		Course pack of required readings for labs	<input type="checkbox"/>		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**Typical Evaluation Methods and Weighting**

Final exam:	30%	Assignments:	20%	Midterm exam:	20%	Practicum:	%
Quizzes/tests:	%	Lab work:	30%	Field experience:	%	Shop work:	%
Other:	%	Other:	%	Other:	%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

1. Introduction to motor learning
 - a. the scientific approach to understanding motor skill learning
 - i. scientific method
 - ii. measurement issues
 - b. the nature of the learning process
 - i. models of motor learning
 - ii. research and the stage of learning concept
 - c. theoretical perspectives on learning
 - i. behaviourist Perspectives
 - ii. cognitive Perspectives
 - iii. dynamic Perspectives
 - d. transfer of learning
 - i. definitions
 - ii. measuring Transfer
 - iii. theoretical basis of transfer
 - e. memory
 - i. models of memory
 - ii. process of forgetting
 - iii. process of retention
 - f. attention
 - i. models of attention
 - ii. decision-making and attention
 - iii. response preparation

2. Structuring the learning environment
 - a. pre-performance considerations
 - i. verbal instructions
 - ii. use of observational learning techniques
 - b. performance considerations
 - i. organizational variables
 - variety
 - amount
 - spacing
 - ii. specificity of practice
 - iii. fatigue
 - iv. mental rehearsal
 - c. post-performance considerations
 - i. augmented information feedback
3. Motor control
 - a. structure and function of the nervous system
 - i. neuroanatomy
 - ii. neurophysiology
 - b. models of human movement control
 - i. open and closed-loop systems
 - ii. theories of movement control
 - c. sensory-perceptual influences on movement control
 - d. motor control theory applications