

THE UNIVERSITY OF WESTERN ONTARIO
School of Kinesiology

Kinesiology 4482A
Perceptual-motor Performance/Learning
2016 (Fall Term)

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Location: Arts & Humanities 1B02

Lectures: MWF, 1:30-2:20

Office Hours: by appol na61514.2841 na618dn

Cell Phone Use

(d) use of SRT tasks in assessing attention demands (see probe tasks, attentional set and SRT data),

(e) SRT and ageing — implications for processing change as we age,

2. Event Uncertainty (choice reaction time [CRT]; factors affecting)

[i] Information Theory (used to control uncertainty size), impact on CRT. Application.

[ii] Probability/Prediction (prediction outcome effect — application;

(a) response conflict exists and takes time to resolve [see Herman, Simon effect, Flanker effect],

(b) Activation-Inhibition relationship)

[iii] Practice Effects (Grabi: target recognition) - application

[iv] Speed/Accuracy Trade-off

[v] Stimulus-Response Compatibility Degree

3. Attention

Allocated - volitionally

> To locations: spatial precue effect (SPE) [see children with DCD]

> Means of filtering

> Assessing Attention Demands (probe task, PRP task) — cell phones, aBT/F3ttT1.0465 n1ETt(c

Inhibitory After-effects in location-based tasks
Impact of sensory system on SNP cause (visual, auditory, tactile)
Cause (response but not location inhibition, M:1 location-response mappings)
Preventing Inhibitory after-effects (probe distractor frequency; IR trial probability)
Practice influence on inhibitory after-effects of which there are 4 (SNP, greater error for IR than for control trials, selection-against former distractor responses, error protection on control trials)
Masked Primes (subliminal processing) — automatic processing
Negative Compatibility Effect (cause, masking) — subliminal processing; adaptability of subliminal processing (time permitting).
Inhibition-of-Return (IOR) — peripheral location effects (time permitting).

(c) Special Populations and Inhibition Characteristics

Children with DCD (Simon effect tasks, Spatial precue tasks)
Aging population (is cognitive inhibition preserved with age?)

5. Free-choice Behaviour

Free-choice refers to when several permissible responses can be used in response to a single stimulus. Such instances are evident in everyday behavior and so are worthy of study. In particular, we want to know what factors influence someone's free-choice response selection — why chose one response over another.

6. Knowledge of Results (KR)

Error recognition and performance retention
Embedded blank trials

7. Advance Cue Utilization in Sport

Methods, Results, Implications

8. Preparation

This is a general topic which comes up in many of the sections listed above. Hence, it is not a section of this course which is confronted in an isolated unit but is one which accumulates information throughout the course.

Preparation types, longevity, rise time; RT influence.

Course/University Policies

- 1. Lateness/Absences:** Assignments are due at the beginning of class on the assigned due date and will not be accepted late, except under medical or other compassionate circumstances. Electronic submission of assignments will not be accepted (unless otherwise specified) under any circumstances. Submitting a late assignment without appropriate documentation will result in a zero (0) grade. Appropriate documentation for assignments worth less than 10% should be submitted to the Undergraduate office. A missed mid-term examination without appropriate documentation will result in a zero (0) grade. The course policy is not to allow make-ups for scheduled midterms, presentations or final exams, nor to assign a grade of Incomplete without acceptable and verifiable medical (or equivalent compassionate) reasons. Acceptable reasons might include hospital stays, serious illness, family emergencies (like serious accidents or illness, death) or similar circumstances.
- 2. Written documentation:** Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, examinations, etc. stating specific reasons and dates. Students must follow up with their professors and their Academic Counselling office in a timely manner. Documentation for any request for accommodation shall be submitted directly, as soon as possible, to the appropriate *Academic Counselling Office* of the student's Faculty/School of registration not to the instructor,

confidence in accordance with the University's Official Student Record Information Privacy Policy.

3. See <https://studentservices.uwo.ca/secure/index.cfm> for specific policy and forms relating to accommodation.

4. **Scholastic offences:** They are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf.

5. **According to the Examination Conflict policy**, "A student who is scheduled to write more than two examinations in any 24-hour period may request alternative arrangements through the office of their Academic Counsellor." **This policy does NOT apply to mid-term examinations.* There will be no make-up for the mid-term exam. Students who miss this exam with a valid reason will have the final re-weighted accordingly.

6. **Classroom Behaviour:** Class will begin promptly at the time specified at the top of page one of this syllabus. In the event that you must arrive late, please enter the classroom with a minimal disturbance to the class. I reserve the right to lock the classroom door and deny entrance if lateness becomes a common occurrence. Excessive talking during class time is disruptive, disrespectful, and will not be tolerated. Students engaging in such behaviour may be asked to leave the room. Cellular phones, pagers, and text-messaging devices are disruptive when they ring in class. If you must bring these with you, please place them on silent mode or turn them off during class. Failure to do so may result in your being asked to leave.

7. Laptops for the **purpose of typing lecture notes** are permitted in class, but please be

<http://www.uwo.ca/univsec/board/code.pdf>

ENGLISH PROFICIENCY FOR THE ASSIGNMENT OF GRADES

Visit the website <http://www.uwo.ca/univsec/handbook/exam/english.pdf>

SUPPORT SERVICES

There are various support services around campus and these include, but are not limited to:

1. Student Development Centre -- <http://www.sdc.uwo.ca/ssd/>
2. Student Health -- <http://www.shs.uwo.ca/student/studenthealthservices.html>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>