

PERCEPTION AND ACTION

Psychology 6265 3.0 (W)
(KINES 6161/BIOL 5136)

Laurence Harris
Wed 2:30-5:30

Enrolment limit 15 students

Purpose: This course looks at sensory and motor processes related to the representation of and interaction with the spatial layout of the world. How is sensory information coded for perception and to guide action? Is it the case that sensory information is processed differently depending what it is going to be used for? No prior biological or mathematical knowledge is assumed.

Course Format: The course will take the form of a weekly interactive seminar meeting. In the second half of the course students will give presentations. A long essay will be required.

Evaluation: Evaluation will be by a long essay, a presentation in class, and on class participation. There will be no timed exam.

Essay:	40%
Presentation:	50%
Participation in class:	10%

Textbook: none

Readings: will be from original sources and review chapters & articles. A more detailed reading list will be constructed from relevant new literature from Journals available in the York Library system. The list will include (York call numbers included):

- Harris LR (1994) *Visual motion caused by movements of the eye, head and body*. in *Visual Detection of Motion*. Smith AT, Snowden R (Eds). Academic Press, London pp 397-436 (BF 245 V57 1994)
- *The Visual Brain in Action* (2006) by David Milner and Melvyn Goodale (OUP) (QP 383.15 M55 2006)
- *Sight unseen: an exploration of conscious and unconscious vision* (2013) by Melvyn Goodale and David Milner OUP (BF 241 G66 2013) (available as an e-book)
- Selected chapters from "*Principles of Neural Science*" (2013) by Eric Kandel and James Schwatz (QP 355.2 P76 2013)
- *Spatial cognition, spatial perception: mapping the self and space* edited by Francine L. Dolins, Robert W. Mitchell. Cambridge University Press, 2010. (BF 469 S63 2010)
- *Embodiment, ego-space and action* (2008) Roberta Klatzky, Brian MacWhinney and Marlene Behrmann, Psychology Press (BF 697 C278 2006)