

SYLLABUS

PSYC380: ADVANCED PERCEPTION --- WINTER 2016

COURSE OBJECTIVES

This course is designed to introduce students to advanced topics in perception, including visual perception, auditory perception, and perception of touch and taste. The course will cover the physiological and cognitive mechanisms underlying perception, as well as the psychological and social factors that influence it. Students will learn how perception is shaped by individual differences, cultural context, and environmental factors.

- 1 PRACTICAL SKILLS: Students will learn how to conduct experiments in perception, analyze data, and interpret results.
- 1 THEORETICAL KNOWLEDGE: Students will gain a deep understanding of the theoretical models and research findings in perception.
- 1 CRITICAL THINKING: Students will develop critical thinking skills by analyzing complex perceptual phenomena and evaluating different theories and approaches.

CONTACT INFORMATION

R21 Room #21G
Phone: 1 613 23-6012
Email: r21@uottawa.ca
Office hours: Monday 10:00 AM - 1:00 PM
Tuesday 11:30 AM - 12:30 PM
R21 Room #21G

SCHEDULE

With respect to the course objectives, the following schedule is proposed:

Week	Topic	Activities
Week 1	Introduction to Perception	Lecture, readings, discussion
Week 2	Visual Perception	Lecture, readings, discussion, lab session
Week 3	Auditory Perception	Lecture, readings, discussion, lab session
Week 4	Perception of Touch and Taste	Lecture, readings, discussion, lab session
Week 5	Individual Differences in Perception	Lecture, readings, discussion, lab session
Week 6	Cultural and Social Influences on Perception	Lecture, readings, discussion, lab session
Week 7	Theoretical Models of Perception	Lecture, readings, discussion, lab session
Week 8	Experimental Methods in Perception Research	Lecture, readings, discussion, lab session
Week 9	Analysis and Interpretation of Data	Lecture, readings, discussion, lab session
Week 10	Final Project Presentations	Presentations, feedback, discussion

Thursdays 10:30 AM - 12:00 PM

11 INTRODUCTION TO MATLAB

What is MATLAB? MATLAB is a numerical computing environment and programming language. It is used for various applications such as signal processing, control systems, and data analysis. MATLAB has a large library of built-in functions and toolboxes for solving engineering and scientific problems.

Why learn MATLAB? MATLAB is widely used in engineering and science. It provides a powerful environment for performing numerical computations and visualizing data. Learning MATLAB can help you solve complex problems more efficiently and effectively.

- 1 Basics of MATLAB
- 1 Variables and Data Types
- 1 Functions and Scripts
- 1 Loops and Conditionals
- 1 Matrices and Arrays
- 1 Plotting and Visualization
- 1 Numerical Methods
- 1 Optimization and Solvers
- 1 Simulations and Modeling
- 1 Data Processing and Analysis

21 INTRODUCTION TO THE PSYCOPYSICS TOOLBOX

Discuss - # PsychoPy is a Python-based toolbox for behavioral experiments, psychophysics and neuroscience studies. It includes a graphical interface for creating stimuli and a command-line interface for running experiments.

W# If! s#,s##c## \$#2c"i\$ ()\$## P##" Sc,"# U# "si" S'A&"#s>! &#"s&h+
h# PschTB4s&h#&"\$#! " &c"i\$ &! &&sh# sc"i\$ # i+&
"# B& this #%

I&# #c! "#s# i\$ 'sch#ic ! &&sh# h##i#s #hi&h#2' ! &! s#\$'
ch,"c##i\$)s! ,s0 i\$ / 'h# iB-s0! i*h# s#"#K##1

31 DEVELOPMENT O: VERSATILE EXPERIMENTAL TOOLBOX

A# R#\$i\$N### i\$B &s2h,"%" ("c'W# &h# hi%# h# "#& s" '
h# \$"#&&N# hc,i#h# PLD s3h--- (8%\$is\$Th# 'A
i228&s18"e# '(%2h# s! i# #4"i28,"! &h# €"c#Q%,@
I&c! "#s3hc%" (i&#s #4"i28#si\$# &h&#()\$# ! ih &"#)+
i6&#s#"ch3# h## h&1

WORKING ON YOUR OWN PROJECT

D! "i\$# s'h"## ##&h# c! "s#3 ih# +& " &&c1ih#()\$# ! ih ,chic# -,
&ocs &! ih(c&h#2! ih(%2# s0 i &! ih"##2\$ h#2&
#4"i28%2h high ! c&#& ,c#c'sch#sic,\$1

I&# #c! "#s i h#()\$# h# & &h#s# ()\$c1 "h#"2#3 26%" Si\$#/#c&
Th#"&B#si&s2h##Qc&#& high "# ss#2#cs h# s! \$*-
€"c#Q

ASSESSMENTS AND EVALUATION

IN-CLASS TESTS AND WORKSHOPS: 36N

W# ih# s2ss #ss 'h# #& ##\$333GTh### 26# ccsis&h##s \$! "i\$#"
css#s3 Sh#2# (%264"cis#sP#s# ! \$! "ssi\$! " \$# s#"#TTh#
& #%"\$i\$# h'! ! & sh! \$ #&h ! " i\$#NT2#(%2

MISCELLANEOUS

PERCENTAGE AND LETTER GRADES

Th# \$i##'##\$si\$@#h# 2\$! si& #ic,##c%2\$Th# &! "s# #'%"ith#&c"#\$',&#'"%\$#cc"\$i@D ##BOG,6\$#C&si&C#:

AQ	A	A-	BQ	B	B-	CQ	C	C-	DQ	D	D-	:
RG	8.8G	80-8<	④④	④④	④④	6④G	63-66	60-62	④④	3-6	0-2	S G

MISSSED OR LATE ASSIGNMENTS

186 " 381 is \$8\$ is it "#c#i# , 287 " 1

This is it! %P#\$ s# h# i&! c" AS SOON AS POSSIBLE i-t ;# ! &'c# +8 h#
c\\$ 'i-! /i\$ \$c! 22h#h (#ssi& &,h23ch-s(l's #2c1
c\$\$ h# "#c%>2s#\$ ssi2sh# "#2s1

REQUEST FOR ACADEMIC ACCOMMODATION

D ##&UN%"si"ls c\$ 'chi")% .cc#ssii" "#"s&ih \$isi@os P," -his c@&
i& \$#s,"##\$#12 cc@"- s! \$#&ih \$isi@os '#&! "# h#h# &B i#
(! &(0# i&h#i" c\$#12 c@os1! "# ,s! \$#&h , \$isi" &hi& 2#\$
cc@os " # s"##&! "#\$ 'c&S! \$#&N#&ss S#")c#s SWS &"##\$# s #,"\$
\$si#1' 2# i&@! \$i@#s# \$i@#(s#)si'h# S! \$#&N#&ss #s@#';
h@B ##&! @! \$#&sscc#ssii" s#")c#s!

LOCATION AND TIME: INAL EARNINGS

As §§ i&c\$#12 R%# \$215# §128 ss ##\$ i s#ssi& S! \$i&
S! 2" T#" 2 s' # i#&# c2 s &ich i's §8n# #& h# l(i# "#2 s#ssi&
h# @sch# \$! # \$! h# E§OCGU

Th# #4"i\$ is is## i&# \$*\$s ('i" h# s," -h# c\$#12 #, i&# c! . "A"s &Sci#&#
Ac\$#12 C#&" &&# OC# -h# U# "si"R#15,"S#1A \$#|#S #2ch#\$! # - h# Wi#"
T#"2s \$#s h# "i\$,#"-# R#\$i8V##\$S! \$#&sh! \$#,18V.&! &" h#
#2ch#\$! # hs ##&#\$1E21\$ " \$##""#\$ 'cc2# #2&#. .
hi\$,&" V%"#s#"@

ACADEMIC INTEGRITY

Ac\$#12 i\$%"is c\$D #\$/ "# ! \$29 #s h\$3! s\$3#ss3#s\$c\$&
"#s\$1's## h\$#12i\$%"% h\$#) s;"# c#&h# / i\$1s "!" "i\$1s! s1\$%
-s\$#12 c2 &&ich,22's h# c2 &&h"i#1\$h#"#&'h#) s#1#ss\$#
h"! %o\$#12 i\$%"-2,! && h# W#\$2B i"#\$1h% -i\$#sW\$ss#&h#
i\$#c! ,i# -h# U# "si's## h# S#&R#('&"i&#s &P"i"i@s'
h\$B ##& o\$#c#"i\$ci#s\$#&!" s##s'l'i&#s'l'i"i@sh2
S! \$#&"# "#s\$1# - P"i\$%"#2#%s ih h# "#% &c&"#12 i\$%"&"-
#& "i\$%h#i" ssi\$sc&2h# l'i&#s -c\$#12 i\$%"1\$#12 i\$%"is
)! i\$# A"s &Sci#& C#&" s## Ac\$#12 R#% &
c#&"s2011-2012-c#&"t\$#12- "#% &"#% &
h\$B ##& o\$#sci\$c\$#12-
3# A"s &Sci#& "#s1# s##

<

hEB ##& d'sci\$#2s! \$#"%"! #c\$#2-i&%* \$"-2# i&! c" -his c! "s#1
D#(! "#s -2\$#2 i&%&! \$# %is2 s# -! & h"iE\$ 2"i\$ii&%" \$
si\$,"# D#Q'h# \$#/2&&\$#2 c2 &O ##& &# s#"i! sss -
h#s# 2"s&which c&f&h# "#% i&%"c,""s&h;c&%"-2
h# ss -%#s &si&h# i! "# ,c! "s# ;"#B i"2&i\$"+2#
! &"si!

COPYRIGHT ©: COURSE MATERIALS

This 2"i, is c"ip#\$ &is - h# s# ! s# s! \$#&"#&"#\$ i&SYC 380 This 2"i, sh,&
\$is"i/ #\$ " \$iss#2\$ 'h# h&! \$#&"#&"#\$ i&is c! "s#1! "# 'i\$# h#s# c&i&
is ,/ #ch -c"ip#\$ cSD # ,/ #ch -c\$#2 EhA\$EhN@