

**University of Waterloo
Department of Psychology
Psychology 306
Perception
Fall, 2013**

Monday and Wednesday, 10-1120 AM, AL211

Instructor and T.A. Information

Instructor: Colin Ellard

Office: PAS 4034

Office Phone: 519-888-4567 ext 36852

Office Hours: Mondays 1230-2 pm or by arrangement

Email: cellard@uwaterloo.ca

The best way to reach me is by email. You can normally expect a response from me within 24 hours. I will hold regular office hours on Mondays but you can reach me at other times and I will do my best to set an appointment for either a face to face meeting or a phone call with you at a time that works for both of us.

T.A.	Erica Goss	Vedran Dzebic
Email	egoss@uwaterloo.ca	vdzebic@uwaterloo.ca
Office	PAS 2245	PAS 2254
Office Hours	TBA	TBA

Course Description

What we perceive through our senses makes up much of our conscious experience. This course examines how visual and auditory perception arises and includes topics such as how we become aware of colour, form, space, brightness, loudness, and pitch, and how this information guides behaviour. We will spend most of our time looking at the visual system, but we will also spend time looking the auditory system. Because of time constraints, we will not be able to cover the sense of touch or the chemical senses—taste and smell. If you would like to explore these senses on your own, you may choose a final essay topic based on this material.

Course Goals and Learning Outcomes

Upon completion of this course, students should be able to:

- A. Describe the broad operation of the visual and auditory senses
 - Describe the relevant anatomy and physiology of sensory pathways
 - Describe the most important findings related to human perception
- B. Begin to appreciate how the principles of perception affect everyday life
 - Describe several important aspects of the visual sense that contributes to our conscious experience of the visual world
 - Describe several important aspects of the auditory sense that contributes to our conscious experience of the auditory world
- C. Write a brief account of a hands-on experiment in perception

- Know how to conduct a simple study in perception using provided tools
 - Know how to describe the findings of such a study in written format
- D. Write a short integrative essay about a personally interesting aspect of perception.
- Understand the format and know how to read a journal article in perception
 - Begin to think critically about how experiments in perception are performed

Required Text

- Wolfe, Kluender, and Levi (2012). Sensation & Perception (third edition). Sunderland, Mass.: Sinauer Press.
- Wyttanbach (2006) PsycCog: Explorations in Perception and Cognition, Rev 7. Sunderland, Mass.: Sinauer Press.

The book and CD described above should be available as a bundle in the UW bookstore. You will require the CD for both graded lab assignments and for self-study.

Readings Available on LEARN

- Course notes associated with each module
- Occasional enrichment articles (not required reading)

Each week I will include some links, notes, and other readings that you may find useful. The content of my notes may be tested in assessment exercises, but the content of the links and any extra journal articles will not be required reading, though this content may help you to understand parts of the course.

Course Requirements and Assessment

Assessment	Date of Evaluation (if known)	Weighting
Weekly check-ins	Various	10%
Experimental report 1	Due October 4	15%
Midterm 1	October 9	20%
Experimental report 2	Due November 6	15%
Midterm 2	November 20	25%
Final essay	December	15%
Total		100%

Notes on Assessments

Weekly Check-ins

Each week you will be asked to complete a short response in the weekly discussion forum. Completion of each item will be worth 1% up to a maximum of 10% . The forums will open on LEARN just after the lecture (dates given in syllabus) and they will normally close on the following day at 11:55 pm. You MUST complete the response in the given time frame in order to receive the credit. In order to accommodate students who register late for the course, the online discussion forums for the first two

chapters will remain open until 11:55 pm on September 22. Following this, item completion must occur by the normal deadline described above.

Experimental Report 1

The first experimental report will be based on the PSYCOG investigation of visual aftereffects. You will be required to conduct some observations on yourself and a few other people and to answer questions as directed by LEARN.

Midterm 1

The midterm will contain both objective (multiple choice) and written answer questions and will cover all material covered up to the date of the test.

Experimental report 2

The second experimental report will be based on the visual search experiments in PSYCOG. The format will be the same as for the first report

Midterm 2

The second midterm will focus primarily on material covered since the date of the first midterm. This said, you should understand that some material in this course is naturally cumulative – that is, your understanding of later material will depend on how well you understood the earlier material.

Final Essay

You will be required to write a 5 page essay based on a topic of your choice within the constraints described in the LEARN module. Your paper will consist of a critical review of one or more journal articles, or a description of how the principles of perception apply to an everyday situation (some examples will be given).

Course Outline

We will cover the content of the first 11 chapters of the textbook. I will spend the first class each week covering the most important points in the chapter. In the second class of the week (Wednesdays) we will deal with any topics not covered in the first class and there will also be some time for questions, discussion, and interactive activities. You should do your best to have read the relevant book chapter at least before the Wednesday class. Ideally, you should have read the chapter before the first class of the week.

Week	Date	Topic	Readings Due
1	September 11	Introduction	Chapter 1
2	September 18	The first steps in vision	Chapter 2
3	September 25	Spatial vision	Chapter 3
4	October 2	Perceiving and recognizing objects	Chapter 4
5	October 16	Colour	Chapter 5
6	October 23	Space	Chapter 6
7	October 30	Attention, scene perception	Chapter 7
8	November 6	Motion perception and visuomotor behaviour	Chapter 8

Week	Date	Topic	Readings Due
9	November 13	Hearing: Physiology and Acoustics	Chapter 9
10	November 25	Hearing in the Environment	Chapter 10
11	December 2	Music and Speech Perception	Chapter 11

Late Work

All written work is to be completed by 11:55 pm on the deadline days stated above, and submitted to a dropbox on LEARN. Students submitting late work will be assessed a penalty of 5% per day or partial day (including weekends) up to a maximum of 35% (7 days). Following this, written work will no longer be accepted for grade. In any case, all written work must be completed by the last day of term, Monday December 2. Work submitted after this date will not be accepted. Plan ahead!

Students Seeking Accommodation Due to Illness or Bereavement

Students who are requesting accommodation for course requirements (assignments, midterm tests, final exams, etc.) due to illness should do the following:

1. seek medical treatment as soon as possible and obtain a completed UW Verification of Illness Form:

http://www.healthservices.uwaterloo.ca/Health_Services/verification.html

and submit that form to the instructor within 48 hours.

2. (preferably) inform the instructor by the due date for the course requirement that you will be unable to meet the deadline and that documentation will be forthcoming.

In the case of a missed final exam, the instructor and student will negotiate an extension for the final exam which will typically be written as soon as possible, but no later than the next offering of the course.

In the case of a missed assignment deadline or midterm test, the instructor will either: waive the course component and re-weight remaining term work as he/she deems fit according to circumstances and the goals of the course, or provide an extension.

In the case of bereavement, the instructor will provide similar accommodations to those for illness. Appropriate documentation to support the request will be required.

Students who are experiencing extenuating circumstances should also inform their academic advisors regarding their personal difficulties.

Experiential Learning with SONA

Since experiential learning is highly valued in the Department of Psychology, students may earn a "bonus" grade of up to 4% in this course through research experience. Course work

will make up 100% of the final mark and a "bonus" of up to 4% may be earned and will be added to the final grade if/as needed to bring your final grade up to 100%.

The two options for earning research experience grades (participation in research and article review) are described below. Students may complete any combination of these options to earn research experience grades.

Option 1: Participation in Psychology Research, Research Experiences Group (REG)

Research participation is coordinated by the Research Experiences Group (REG).

Psychology students may volunteer as research participants in lab and/or online (web-based) studies conducted by students and faculty in the Department of Psychology.

Participation enables students to learn first-hand about psychology research and related concepts. Many students report that participation in research is both an educational and interesting experience. Please be assured that all Psychology studies have undergone prior ethics review and clearance through the Office of Research Ethics.

Educational focus of participation in research

To maximize the educational benefits of participating in research, students will receive feedback information following their participation in each study detailing the following elements:

Purpose or objectives of the study

Dependent and independent variables

Expected results

References for at least two related research articles

Provisions to ensure confidentiality of data

Contact information of the researcher should the student have further questions about the study

Contact information for the Director of the Office of Research Ethics should the student want to learn more about the general ethical issues surrounding research with human participants, or specific questions or concerns about the study in which s/he participated.

Participation in LAB studies is worth 0.5 participation credits (grade percentage points) for each 30-minutes of participation. Participation in ONLINE studies is worth .25 credits for each 15-minutes of participation. Researchers will record student's participation and will advise the course instructor of the total credits earned by each student at the end of the term.

How to participate?

Study scheduling, participation and grade assignment is managed using the SONA online system. All students enrolled in this course have been set up with a SONA account. You must get started early in the term.

For instructions on how to log in to your SONA account and for a list of important dates and deadlines please, as soon as possible go to:

*** Please do not ask the Course Instructor or REG Coordinator for information unless you

have first thoroughly read the information provided on this website.***

More information about the REG program is available at:

REG Participants' Homepage

Option 2: Article Review as an alternative to participation in research

Students are not required to participate in research, and not all students want to do so. As an alternative, students may opt to gain research experience by writing short reviews (1½ to 2 pages) of research articles relevant to the course.

You must contact your TA to get approval for the article you have chosen before writing the review. Each review article counts as one percentage point. To receive credit, you must follow specific guidelines. The article review must:

Be submitted before the last day of lectures. Late submissions will NOT be accepted under ANY circumstances.

Information on Plagiarism Detection

I have chosen not to use plagiarism detection software in this course. You should know, however, that both the teaching assistants and I have an expert eye for cheating developed over many years of experience. Any suspected violations of the University's integrity policy will be treated seriously and reported to the appropriate authorities. As per the note on integrity below, it is the student's responsibility to understand what plagiarism is and to avoid committing it.

Electronic Device Policy

You are welcome to use notebook computers or smartphones in my classroom for note-taking, and even the occasional Google search of something related to discussion would not be inappropriate. I would appreciate it if all chimes, beeps, tweets and ringtones (especially those which sample music I don't like) be muted during class.

Attendance Policy

There is ample evidence that students who attend class regularly do better than those who don't. This, and the fact that you're investing a large amount of money to obtain a good education, should make questions about class attendance a no-brainer. You should come to class as often as you can. If you do miss a class, you will need to find a classmate to share notes with you. As much as I like talking about perception, I simply don't have the time to repeat classes for you during office hours or over email.

Accommodations for Students with Disabilities Access-Ability Services, located in Needles Hall Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with Access-Ability Services at the beginning of each academic term.

Concerns About the Course or Instructor (Informal Stage) We in the Psychology Department take great pride in the high quality of our program and our instructors. Though infrequent, we know that students occasionally find themselves in situations of conflict with their instructors over course policies or grade assessments. If such a conflict arises, the Associate Chair for Undergraduate Studies ([Myra](#)

Fernandes from July 1, 2012 through June 30, 2014) is available for consultation and to mediate a resolution between the student and instructor. Contact information is as follows:

Myra Fernandes Email: mafernan@uwaterloo.ca Ph 519-888-4567 ext 32142

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. See Policy 70 and 71 below for further details.

Academic Integrity, Academic Offenses, Grievance, and Appeals

To protect course integrity, as well as to provide appropriate guidance to students, course outlines in the Faculty of Arts must include the following note on avoidance of academic offenses:

Academic Integrity: In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility.

[Further details: <http://www.uwaterloo.ca/academicintegrity/>]

Discipline: A student is expected to know what constitutes academic integrity [<http://www.uwaterloo.ca/academicintegrity/>], to avoid committing academic offenses, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about 'rules' for group work/collaboration should seek guidance from the course instructor, academic advisor, or the Undergraduate Associate Dean. When misconduct has been found to have occurred, disciplinary penalties will be imposed under Policy 71 - Student Discipline. For information on categories of offenses and types of penalties, students should refer to Policy 71 - Student Discipline [<http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm>].

Grievance: A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70 - Student Petitions and Grievances, Section 4 [<http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm>].

Appeals: A student may appeal the finding and/or penalty in a decision made under Policy 70 - Student Petitions and Grievances (other than regarding a petition) or Policy 71 - Student Discipline if a ground for an appeal can be established. Read Policy 72 - Student Appeals [<http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm>]. (Include also the following paragraph if you will be using Turnitin*): Plagiarism detection software (Turnitin) will be used to screen assignments in this course. This is being done to verify that use of all materials and sources in assignments is documented. In the first week of the term, details will be provided about arrangements for the use of Turnitin in this course.

Academic Integrity website (Arts): http://arts.uwaterloo.ca/arts/ugrad/academic_responsibility.html

Academic Integrity Office (UW): <http://uwaterloo.ca/academicintegrity/>.

Note for Students with Disabilities

The Office for Persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.