

Psychology 369 (LEC 01)
Sensation and Perception
Fall 2017

Instructor:	Dr. Audny T. Dypvik	Lecture Location:	MFH 160
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Course Description

The purpose of this course is to examine the psychological and physiological basis of sensory and perceptual processes including a thorough introduction to perception and psychophysics, vision, audition, speech perception, touch, pain, taste, and smell. It is meant to provide a background for advanced courses in sensory and perceptual processing in relation to brain function.

Course Learning Outcomes

The Department of Psychology is committed to student knowledge and skill development. The table below lists the key learning outcomes for this course, the program-learning outcomes they facilitate (see psyc.ucalgary.ca/undergraduate/program-learning-outcomes), and the expected level of achievement.

Course Learning Outcomes

Assessment Methods PLO(s) Level(s)

Recall key concepts regarding basic sensations, the simple processes at the start of sensory systems	Multiple choice exams	1,2	C,I
Extend and interpret knowledge of complex perceptual processes to higher order mechanisms in the brain	Multiple choice exams	1,2	C,I
Evaluate theories of perceptual processes	Multiple choice exams	1,2	C,I
Evaluate and assess research methods and research findings	Multiple choice exams	1,2	C,I
Interpret basic concepts that lead to applications in medical research	Multiple choice exams	1,2	C,I

Notes. PLOs = Program-Learning Outcomes: 1 = demonstrate knowledge of psychological sciences, 2 = think critically and solve problems, 3 = conduct research and analyze data, 4 = communicate effectively, 5 = demonstrate information literacy, 6 = understand and implement ethical principles, 7 = apply psychological knowledge and skills. Level of PLO achievement facilitated by this course: I = introductory, C = competency, A = advanced.

Prerequisites

Psychology 205 – Principles of Psychology

Required Text

Goldstein, E.B. (2016). *Sensation and Perception* (Tenth Edition). Belmont, CA: Wadsworth Textbooks are available in the University Bookstore. They include supplementary resource material called MindTap.

Assessment Methods

There will be **three virtually equally weighted, non-cumulative examinations**. The format of the exams will be **multiple-choice** questions. The average of the three exams will be your final mark. The date of **EXAM #1** will be Tuesday, October 10 and will test chapters 1 through 5. The date of **EXAM #2** will be Tuesday, November 7 and will test chapters 6 through 10. The final exam, **EXAM #3** will be scheduled by the Registrar, and will test chapters 11 through 15. The exams will cover the textbook chapters as listed below as well as the lecture notes associated with those chapters. There will be no computers, iPods, iPads, books, or notes allowed during exams.

Exam	Date	Test coverage	% of Grade
EXAM #1	Oct. 10	Chapters 1-5	33.3%
EXAM #2	Nov. 7	Chapters 6-10	33.3%
EXAM #3	Dec. 11-21	Chapter 11-15	33.3%

Department of Psychology Criteria for Letter Grades

Psychology professors use the following criteria when assigning letter grades:

A+ grade: *Exceptional Performance*. An A+ grade indicates near perfect performance on multiple choice and short answer exams. For research papers/essays/course projects/presentations, an A+ grade is awarded for exceptional work deserving of special recognition and is therefore not a common grade.

A, A- Range: *Excellent Performance*. Superior understanding of course material. Written work is very strong in terms of critical and original thinking, content, organization, and the expression of ideas, and demonstrates student's thorough knowledge of subject matter.

B Range: *Good Performance*. Above average understanding of course material. Written work shows evidence of critical thinking and attention to organization and editing but could be improved in form and/or content.

C Range: *Satisfactory Performance*. Adequate understanding of course material. Knowledge of basic concepts and terminology is demonstrated. Written work is satisfactory and meets essential requirements but could be improved significantly in form and content. Note: All prerequisites for courses offered by the Faculty of Arts must be met with a minimum grade of C-.

D range: *Marginally meets standards*. Minimal understanding of subject matter. Written work is marginally acceptable and meets basic requirements but requires substantial improvements in form and content. Student has not mastered course material at a level sufficient for advancement into more senior courses in the same or related subjects.

F grade: *Course standards not met*. Inadequate understanding of subject matter. Written work does not meet basic requirements. Student has not demonstrated knowledge of course material at a level sufficient for course credit.

Grading Scale

A+	96-100%	B+	80-84%	C+	67-71%	D+	54-58%
A	90-95%	B	76-79%	C	63-66%	D	50-53%
A-	85-89%	B-	72-75%	C-	59-62%	F	0-49%

As stated in the University Calendar, it is at the instructor's discretion to round off either upward or downward to determine a final grade when the average of term work and final examinations is between two letter grades.

To determine final letter grades, final percentage grades will be rounded up or down to the nearest whole percentage (e.g., 89.5% will be rounded up to 90% = A but 89.4% will be rounded down to 89% = A-).

Tentative Lecture Schedule

Date	Topic	Exam	Text Chapter
M Sep11	University Lectures begin		
T Sep 12	Lectures begin for Psychology 369 Study of perception, measuring perception		1
R Sep 14	Initial perceptual processes – vision Electrical signals in neurons – the action potential		2
T Sep 19	Neural convergence Developmental considerations		2
R Sep 21	Neural processing – lateral inhibition Retina to visual cortex – receptive fields		3
F Sep 22	Last day to drop full courses (Multi-term) and Fall Term half courses. No refunds for full courses (Multi-term) or Fall Term half courses after this date.		
M Sep 25	Last day to add or swap full courses (Multi-term) and Fall Term half courses. Last day for change of registration from audit to credit or credit to audit.		
T Sep 26	Neural processing Feature detectors – higher level neurons		3
R Sep 28	Visual system – cortical organization Information pathways		4
F Sep 29	Fee payment deadline for Fall Term full and half courses.		
T Oct 3	Object perception Perceptual organization		5
R Oct 5	Scene perception Developmental considerations		5
M Oct 9	Thanksgiving Day, University closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.		
T Oct 10		EXAM #1 Chapters 1-5	
R Oct 12	Visual attention Scanning a scene, feature integration theory		6
T Oct 17	Action Ecological approach		7
R Oct 19	Motion perception Researching motion perception		8

T Oct 24	Motion perception and the brain		8
R Oct 26	Color perception Theories		9
T Oct 31	Color perception Developmental considerations		9
R Nov 2	Depth perception Size perception		10
T Nov 7		EXAM #2 Chapters 6-10	
R Nov 9-12	Reading Days. No lectures.		
M Nov 13	Remembrance Day (Observed). University Closed (except Taylor Family Digital Library, Law, Medical, Gallagher and Business Libraries). No lectures.		
T Nov 14	Hearing Basics of perceiving sound		11
R Nov 16	Structure of the ear Physiology of hearing		11
T Nov 21	Sound localization		12
R Nov 23	Speech perception The acoustic signal		13
T Nov 28	Speech perception The speech stimulus, categorical perception		13
R Nov 30	Cutaneous senses Touch		14
T Dec 5	Cutaneous senses Pain		14
R Dec 7	Chemical senses Taste, olfaction		15
F Dec 8	Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.		
Dec 11-21	Fall Term Exam Period.	EXAM #3 –Final Chapters 11-15	

Reappraisal of Grades

A student who feels that a piece of graded term work (e.g., term paper, essay, test) has been unfairly graded, may have the work re-graded as follows. The student shall discuss the work with the instructor within 15 days of being notified about the mark or of the item's return to the class; no reappraisal of term work is permitted after the 15 days. If not satisfied, the

student shall immediately take the matter to the Head of the department offering the course, who will arrange for a reassessment of the work within the next 15 days. The reappraisal of term work may cause the grade to be raised, lowered, or to remain the same. If the student is not satisfied with the decision and wishes to appeal, the student shall address a letter of appeal to the Dean of the faculty offering the course within 15 days of the unfavourable decision. In the letter, the student must clearly and fully state the decision being appealed, the grounds for appeal, and the remedies being sought, along with any special circumstances that warrant an appeal of the reappraisal. The student should include as much written documentation as possible.

Plagiarism and Other Academic Misconduct

Intellectual honesty is the cornerstone of the development and acquisition of knowledge and requires that the contribution of others be acknowledged. Consequently, plagiarism or cheating on any assignment is regarded as an extremely serious academic offense. Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Students should examine sections of the University Calendar that present a Statement of Intellectual honesty and definitions and penalties associated with Plagiarism/Cheating/Other Academic Misconduct.

Academic Accommodations

The student accommodation policy can be found at: ucalgary.ca/access/accommodations/policy.

Students needing an Accommodation because of a Disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities ucalgary.ca/policies/files/policies/student-accommodation-policy. Students needing an Accommodation based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the instructor.

Absence From A Test/Exam

Makeup tests/exams are **NOT** an option without an official University medical excuse (see the University Calendar). A completed Physician/Counselor Statement will be required to confirm absence from a test/exam for health reasons; the student will be required to pay any cost associated with this Statement. Students who miss a test/exam have up to 48 hours to contact the instructor and to schedule a makeup test/exam. Students who do not schedule a makeup test/exam with the instructor within this 48-hour period forfeit the right to a makeup test/exam. At the instructor's discretion, a makeup test/exam may differ significantly (in form and/or content) from a regularly scheduled test/exam. Except in extenuating circumstances

(documented by an official University medical excuse), a makeup test/exam must be written within 2 weeks of the missed test/exam during exam make-up hours provided by the department <http://psychology.ucalgary.ca/undergraduate/exam-and-course-information#mues>

If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam:

http://www.ucalgary.ca/registrar/exams/deferred_final

Under no circumstances will this be accommodated by the department.

Travel During Exams

Consistent with University regulations, students are expected to be available to write scheduled exams at any time during the official December and April examination periods. Requests to write a make-up exam because of conflicting travel plans (e.g., flight bookings) will NOT be considered by the department. Students are advised to wait until the final examination schedule is posted before making any travel arrangements. If a student cannot write their final exam on the date assigned by the Registrar's Office, they need to apply for a deferred exam:

http://www.ucalgary.ca/registrar/exams/deferred_final

Under no circumstances will this be accommodated by the department.

Freedom of Information and Protection of Privacy (FOIP) Act

The FOIP legislation disallows the practice of having student's retrieve tests and assignments from a public place. Therefore, tests and assignments may be returned to students during class/lab, or during office hours, or will be made available only for viewing during exam review sessions scheduled by the Department. Tests and assignments will be shredded after one year. Instructors should take care to not link students' names with their grades, UCIDs, or other FOIP-sensitive information.

Acknowledgments and Respect for Diversity

Our classrooms view diversity of identity as a strength and resource. Your experiences and different perspectives are encouraged and add to a rich learning environment that fosters critical thought through respectful discussion and inclusion. The Department of Psychology would also like to acknowledge the traditional territories of the people of the Treaty 7 region in southern Alberta. The City of Calgary is also home to Métis Nation of Alberta, Region III.

Campus Mental Health Strategy

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help

resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

Course Credits for Research Participation

Course Credits for Research Participation (Max 2% of final grade)

Students in most psychology courses are eligible to participate in Departmentally approved research and earn credits toward their final grades. **A maximum of two credits (2%) per course, including this course, may be applied to the student's final grade. Students earn 0.5% (0.5 credits) for each full 30 minutes of participation.** The demand for timeslots may exceed the supply in a given term. Thus, students are not guaranteed that there will be enough studies available to them to meet their credit requirements. Students should seek studies early in the term and should frequently check for open timeslots. Students can create an account and participate in Departmentally approved research studies at <http://ucalgary.sona-systems.com>. The last day to participate in studies and to assign or reassign earned credits to courses is **Dec 8, 2017**.

Evacuation Assembly Point

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at <http://www.ucalgary.ca/emergencyplan/assemblypoints>. Please check this website and note the nearest assembly point for this course.

Student Organizations

Psychology students may wish to join the Psychology Undergraduate Students' Association (PSYCHS). They are located in Administration 130 and may be contacted at 403-220-5567.

Student Union VP Academic: Phone: 403-220-3911 suypaca@ucalgary.ca
Student Union Faculty Rep.: arts1@su.ucalgary.ca

Student Ombudsman's Office

The Office of the Student Ombudsmen provides independent, impartial and confidential support for students who require assistance and advice in addressing issues and concerns related to their academic careers. The office can be reached at 403-220-6420 or ombuds@ucalgary.ca (<http://www.ucalgary.ca/provost/students/ombuds>)

Safewalk

The safewalk program provides volunteers to walk students safely to their destination anywhere on campus. This service is free and available 24 hrs/day, 365 days a year. Call 403-220-5333.

Important Dates

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **September 22, 2017**. Last day for registration/change of registration is **September 25, 2017**. The last day to withdraw from this course is **December 8, 2017**.