Instructor: Dr. Karsten A. Loepelmann  
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Office: BS P231  
Phone: (780) 492-7157  
Class Website: https://sites.ualberta.ca/~kloepelm/367/

Prerequisites
The required prerequisites for this course are PSYCO 275 or 258; no exceptions or waivers. You may not take this course for credit if you have credit in PSYCO 267. See UAlberta Calendar section Registration: Prerequisite Course Requirements.

Course Description
This course is an introduction to theoretical and experimental issues about our sensory and perceptual experience of the world. The main emphasis is on understanding basic perceptual phenomena, such as the relation between physical stimuli and experience. To this end, we must consider: the nature of the physical stimuli, as described by physics; the anatomy and physiology of the sense organs and receptors; the neural paths from the receptors to the brain; how the brain processes sensory information; and attentional processes. Basic and applied issues are examined in the modalities of vision, audition, olfaction, gustation, and the cutaneous senses; psychophysical and other methods are also described. Specific learning objectives are given in lectures for each topic.

Assessment
i>clicker participation (worth 5%)  
2 midterm exams (worth 27.5% each)  
Cumulative final exam (worth 40%)

i>clicker Participation: Marks are assigned for answering i>clicker-based questions in class. You will receive 5% only if you participate in at least 8 (out of 15) sessions. Marks are not determined by how many questions you get correct. You must register your i>clicker remote in eClass, or register your REEF Polling by i>clicker app or account. If you are unable to purchase either option, please contact the instructor.

Midterms: The midterms will test material covered in the assigned readings and lectures. Although there is much overlap between the textbook and lectures, it is not a complete overlap; some content is only covered in one or the other. You are responsible for all material. The midterms will consist of multiple-choice questions. Midterms will not be handed back in class; exam viewings will be held by the instructor. If you miss a midterm for an acceptable reason such as incapacitating illness or severe domestic affliction, then the weight of the excused exam will be added to your final exam (declaration form hardcopy required). Documentation must be provided within 2 working days of the missed exam. No makeup exams or assignments are accepted. You must show your ONECard at exams. See UAlberta Calendar sections Academic Regulations: Attendance and Examinations (Exams).

Cumulative Final: See the Office of the Registrar’s exam schedule for official date, time, and location. The 2-hour final exam will be cumulative; it will have multiple-choice questions based on the entire course, with an emphasis on the material covered after the second midterm. If you miss this exam, you must apply to your Faculty Office for a deferral of the final exam within two working days of the missed exam date. See UAlberta Calendar sections Academic Regulations: Attendance and Final Examinations.
Grading
Final grades in this course will be assigned based on the University of Alberta letter grading system. This grade translation is approximate; the instructor reserves the right to use expert judgment to adjust the grades as necessary.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A+</td>
<td>89-100%</td>
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<tr>
<td>A</td>
<td>86-88%</td>
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<tr>
<td>A-</td>
<td>81-85%</td>
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<tr>
<td>B+</td>
<td>75-80%</td>
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<tr>
<td>B</td>
<td>70-74%</td>
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<tr>
<td>B-</td>
<td>67-69%</td>
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<tr>
<td>C+</td>
<td>62-66%</td>
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<tr>
<td>C</td>
<td>57-61%</td>
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<tr>
<td>C-</td>
<td>53-56%</td>
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<tr>
<td>D+</td>
<td>45-52%</td>
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<tr>
<td>D</td>
<td>40-44%</td>
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<tr>
<td>D-</td>
<td>35-39%</td>
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<td>F</td>
<td>0-39%</td>
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Required Textbook/Materials
This book is also available as an ebook.
To participate in interactive questions in class for marks, you will need any i>clicker remote (available at the Bookstore) or a REEF Polling by i>clicker account. With a REEF Polling account, you can respond to questions via an iOS or Android app, or using any browser.

Outline of Classes

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assigned Readings:</th>
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<tbody>
<tr>
<td>May 8-12</td>
<td>Introduction to perception; Psychophysical methods</td>
<td>Chapter 1 Chapter 2 Appendixes A, B, C, &amp; D Chapter 2</td>
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<td>Psychophysical methods and Signal Detection Theory Early visual</td>
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<td></td>
<td>processing</td>
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<td>May 15-19</td>
<td>Neural processing in vision</td>
<td>Chapter 3 Chapter 4 Chapter 6</td>
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<td>The visual brain</td>
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<td></td>
<td>Visual attention</td>
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<tr>
<td>May 22-26</td>
<td><strong>No class (Victoria Day): Mon., May 22</strong></td>
<td><strong>MIDTERM 1: Tues, May 23</strong> (Chs. 1, 2, 3, 4, 6, &amp; Appendix)</td>
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<tr>
<td></td>
<td>Object perception</td>
<td>Chapter 5 Chapter 7</td>
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<td></td>
<td>Perception and action</td>
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<tr>
<td>May 29-June 2</td>
<td>Motion perception</td>
<td>Chapter 8 Chapter 9</td>
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<td></td>
<td>Colour perception</td>
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<td></td>
<td>Depth &amp; size perception</td>
<td>Chapter 10</td>
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<tr>
<td>June 5-9</td>
<td><strong>MIDTERM 2: Mon., June 5</strong></td>
<td><strong>(Chs. 5, 7, 8, 9, &amp; 10)</strong></td>
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<td>Sound, the auditory system &amp; pitch</td>
<td>Chapter 11 Chapter 12</td>
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<td>Sound localization &amp; auditory scene</td>
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<td>June 12-14</td>
<td>The cutaneous senses</td>
<td>Chapter 14 Chapter 15</td>
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<td>The chemical senses</td>
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The final exam will be held in the final exam period as per the exam schedule, tentatively scheduled for **Thursday, June 15, 2017 at 3:00 p.m. in BS B121.**
(Deferred final exam will be held on Monday, June 19, 2017 at 10:00 a.m. in BS P231.)
The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behaviour and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

All forms of dishonesty are unacceptable at the University. Any offence will be reported to the Associate Dean of Science who will determine the disciplinary action to be taken. Cheating, plagiarism and misrepresentation of facts are serious offences. Anyone who engages in these practices will receive at minimum a grade of zero for the exam or paper in question and no opportunity will be given to replace the grade or redistribute the weights. As well, in the Faculty of Science the sanction for cheating on any examination will include a disciplinary failing grade (no exceptions) and senior students should expect a period of suspension or expulsion from the University of Alberta.

If you choose to use REEF Polling, be aware that: a) you are subject to REEF Education’s and Authorize.Net’s privacy policies, b) your information is held outside of Canada in Ireland, so is subject to their laws, and c) you should use a non-identifying email address to register (i.e., NOT @ualberta.ca and NOT firstname.lastname@xxxx.com).

For an excused absence where the cause is religious belief, a student must contact the instructor(s) within two weeks of the start of Fall or Winter classes (within three days of the start of Spring or Summer classes) to request accommodation for the term (including the final exam, where relevant). Instructors may request adequate documentation to substantiate the student request.

With the exception of term work for which students did not receive feedback before the posting of final grades, students must initiate a request for reevaluation of term work with the instructor prior to the day of the final exam or in the case of courses without final exams, before the posting of final grades.

Representative evaluative course material (i.e., sample multiple choice exam questions) are available on the Internet at the course website and the textbook companion website; see course website for link to this web resource.

Students registered with Student Accessibility Services (SAS) have both rights and responsibilities with regard to accessibility-related accommodations. Consequently, scheduling exam accommodations in accordance with SAS deadlines and procedures is essential. Please note adherence to procedures and deadlines is required for U of A to provide accommodations. Contact SAS for further information.

Audio or video recording, digital or otherwise, of lectures, labs, seminars or any other teaching environment by students is allowed only with the prior written consent of the instructor or as a part of an approved accommodation plan. Student or instructor content, digital or otherwise, created and/or used within the context of the course is to be used solely for personal study, and is not to be used or distributed for any other purpose without prior written consent from the content author(s).

Reexamination is not permitted in a course in which a passing grade was achieved. A student who writes the final examination and fails the course may apply for a reexamination. Reexaminations are rarely granted. Reexaminations are governed by Calendar sections Academic Regulations: Examinations (Exams): Reexamination, and Faculty of Science Regulations: Academic Standing: Reexamination. Misrepresentation of Facts to gain a reexamination is a serious breach of the Code of Student Behaviour.

Students who require additional help in developing strategies for better time management, study skills or examination skills should contact the Student Success Centre (2-300 Students’ Union Building).

Any typographical errors in this Course Outline are subject to change and will be announced in class. The date of the final examination is set by the Registrar and takes precedence over the final examination date reported in this syllabus.

Policy about course outlines can be found in §23.4(2) of the University Calendar.