

**Psychology 503.02**
**Transportation Human Factors**
**Fall 2023**

<b>Instructor:</b>	Prof. Jeff Caird	<b>Lecture Location:</b>	SA 17
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### Course Description

This course surveys the body of research on traffic safety and driver behavior. Transportation safety is explored through the lens of human factors psychology. Class presentations and discussion are integral parts of this course.

### 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 <https://live-arts.ucalgary.ca/psychology/about#program-learning-outcomes>), and the expected level of achievement. [psyc.ucalgary.ca/undergraduate/program-learning-outcomes](https://psyc.ucalgary.ca/undergraduate/program-learning-outcomes)), and the expected level of achievement.

Course Learning Outcomes	Assessment Methods	PLO(s)	Level(s)
Students will synthesize and articulate the knowledge and methods within transportation human factors.	Take home essay exam	1,5,6,7	A
Students will apply knowledge and methods to a variety of contexts and problems.	Essay exam, group activities	2,6,7	A
Students will search and synthesize knowledge on various topics.	Class presentations	3,4,5,7	A

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.

### **Acknowledgments and Respect for Diversity**

Our department views 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.

### **Course Format**

This is an in-person class held on campus.

### **Prerequisites**

PSYC 300 and 301 and admission to the Psychology major or Honours program.

### **Required Text**

For each topic in transportation human factors, readings will be assigned. A list of papers will be provided on D2L that can be accessed through the library online. Students are expected to read assigned papers before class.

### **Assessment Methods**

#### **Class Presentations (70% of course grade):**

In groups of two or three (depending on class size), groups will present the content of a course reading. Students in their groups will make a presentation once every two weeks throughout the term. Class readings will be assigned to groups every two weeks. Groups will also be reformed every two weeks. Groups should integrate discussion questions into presentations and plan sufficient time to discuss content and issues. Slides from group presentations will be posted to D2L.

All class members will read the course readings for the week prior to class and be prepared to discuss the content and issues. The purpose of presentations and discussion is to critique important methods, results and issues associated with each topic.

A list of course readings will be posted to D2L (also see Tentative Lecture Schedule below). A total of 10 topics will be covered with 3 papers assigned for each topic. A different topic will be covered each week. Students will present 5 papers during the semester (14% for each presentation x 5 = 70%). A rubric for presentation evaluations will be posted to D2L.

Missed presentations will require instructor approval. Once approved by the course instructor, and at their discretion, alternative arrangements for missed assessments may be considered

<https://www.ucalgary.ca/pubs/calendar/current/g-1-2.html>.

Without approval, a 0 will be assigned. With approval, adding the weight of the missed presentation to the next presentation will be considered.

Students may be asked for documentation <https://www.ucalgary.ca/pubs/calendar/current/m-1.html>.

### **Take Home Exams (30% of course grade):**

**Take home midterm and final exams** will cover the course readings, class presentations and discussions. The format of each take home exam will be essay. Students will have three days to complete each exam. Take home exams will be submitted to a D2L dropbox.

### **Distribution of Grades:**

Take Home Midterm (Oct 25)	15%
Class Presentations	70%
Take Home Final (Dec 4)	15%
Total	100%

### **University of Calgary Academic Integrity Policy**

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity.

Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional code of conduct and promote academic integrity in upholding the University of Calgary's reputation of excellence. It is your responsibility to ensure that you have read and are familiar with the student academic misconduct policy:

<https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Academic-Misconduct-Policy.pdf>.

### **Department of Psychology Criteria for Letter Grades**

Psychology course instructors 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%

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-).

### Important Dates

Date	Topic/Activity/Readings/Due Date (revise and add columns & rows as necessary)
W Sep 6	First day of lectures
R Sep 14	Last day to drop a class without a penalty
F Sep 15	Last day to add or swap a course
F Sep 22	Fee payment deadline for Fall Term full and half courses.
S Sep 30	UNIVERSITY CLOSED National Day for Truth and Reconciliation
<b>M Oct 9</b>	<b>UNIVERSITY CLOSED Thanksgiving Day</b>
S Nov 11	UNIVERSITY CLOSED Remembrance Day (Observed Monday Nov 13).
<b>Nov 12-18</b>	<b>Term Break No Classes</b>
W Dec 6	Fall Term Lectures End. Last day to withdraw with permission from Fall Term half courses.
Dec 9-20	Fall Final Exam Period

## Tentative Lecture Schedule

	Dates	Topic(s)	Readings
1.	Sept. 6, 8	Syllabus, Background	See D2L list for specific readings for each date.
2.	Sept. 11, 13, 15	Methods and Models	“
3.	Sept. 18, 20, 22	Vision, Visual Search, Attention	“
4	Sept. 25, 27, 29	Younger and Older Drivers	“
5.	Oct. 2, 4, 6	Speed and Aggressive Driving	“
6.	Oct. 11, 13	Occupant Restraints	“
7.	Oct. 16, 18, 20	Alcohol and Drugs	“
8.	Oct. 23, 25, 27	<b>Take Home Midterm</b>	“
9.	Oct. 30, Nov. 1, 3	Distraction and Inattention	“
10.	Nov. 6, 8, 10	Fatigue and Sleepiness	“
11.	Nov. 20, 22, 24	Pedestrians, Bicyclists and Motorcycles	“
12.	Nov. 27, 29, Dec. 1	Autonomous Vehicles	“
13.	Dec. 4, 6	<b>Take Home Final</b>	

**Extra Research Participation Course Credit is Not Offered for this Course.**

### Seating During Exams

Instructors and exam invigilators are free to ask students to move seats before an exam begins or even during an exam. Students must comply with this request and refusal to do so may warrant a charge of academic misconduct.

### Absence From Test/Exam

Makeup tests/exams are **NOT** an option without the approval of the instructor <https://www.ucalgary.ca/pubs/calendar/current/g-1-1.html> At the instructor's discretion, a makeup test/exam may differ significantly (in form and/or content) from a regularly scheduled test/exam.

Once approved by the instructor a makeup test/exam must be written within 2 weeks of the missed test/exam on a day/time scheduled by the instructor. 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

<https://www.ucalgary.ca/registrar/exams/deferred-exams>

### **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 [Deferred Final Exams | University of Calgary \(ucalgary.ca\)](#) Students with an exceptional extenuating circumstance (e.g., a family emergency) should contact the Department of Psychology [psyugrd@ucalgary.ca](mailto:psyugrd@ucalgary.ca)

**Reappraisal of Graded Term Work** <http://www.ucalgary.ca/pubs/calendar/current/i-2.html>

**Reappraisal of Final Grade** <http://www.ucalgary.ca/pubs/calendar/current/i-3.html>

### **Academic Accommodations**

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/). Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>.

### **Academic Misconduct**

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

### **Instructor Intellectual Property**

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments, and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed, or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

### **Copyright Legislation**

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright

([https://library.ucalgary.ca/services/copyright?\\_gl=1\\*\\_bcjlpn\\*\\_ga\\*OTY1ODc0Njg0LjE2NjkxNTA1NTM.\\*\\_ga\\_X4GN9Y4W7D\\*MTY3Nzc5MjM3Ni4xNy4xLjE2Nzc3OTI4MDYuMC4wLjA](https://library.ucalgary.ca/services/copyright?_gl=1*_bcjlpn*_ga*OTY1ODc0Njg0LjE2NjkxNTA1NTM.*_ga_X4GN9Y4W7D*MTY3Nzc5MjM3Ni4xNy4xLjE2Nzc3OTI4MDYuMC4wLjA)) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

### **Freedom of Information and Protection of Privacy**

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary

### **Student Support and Resources**

<https://www.ucalgary.ca/registrar/registration/course-outlines>

### **Important Dates**

The last day to drop this course with no "W" notation and **still receive a tuition fee refund** is **Thursday, September 14<sup>th</sup>, 2023**. Last day add/swap a course is **Friday, September 15<sup>th</sup>, 2023**. The last day to withdraw from this course is **Wednesday, December 6<sup>th</sup>, 2023**.