

**CGSC 3501-A: Cognitive Neuroscience**  
**Course Outline**  
***Early Summer 2022***

**Class Information**

Dates: Tuesdays and Thursdays

Time: 2:35 pm – 5:25 pm

Location: Tory Building, Room 236

Course prerequisites: CGSC 2001 and third-year standing in Cognitive Science

**Instructor Information**

Instructor: Josh Redstone

Office: N/A

E-mail: [josh.redstone@carleton.ca](mailto:josh.redstone@carleton.ca)

**Course Description**

In this course we will consider issues related to the role of cognitive neuroscience research in cognitive science. By examining selected topics such as neural anatomy, vision, attention, memory, language, mental representation, and others, students will become familiar with both the research methods and major findings of cognitive neuroscience.

**Course Textbook**

Postle, B. R. *Essentials of Cognitive Neuroscience, 2nd Edition*. John Wiley & Sons, Inc. ISBN: 978-1-119-67616-4.

This text is available at the Campus Bookstore or via online retailers (physical and digital copies). The first edition of this book is also available in digital format from the MacOdrum Library and can be used for this class.

**Course Website**

The course website can be found on Brightspace (<https://brightspace.carleton.ca/d2l/home>). Here you will find this course outline, our class schedule, PowerPoint slides, and other supplementary materials that will be made available as we proceed through this course.

**Evaluation**

Grade Item	Percent of Final Grade	Due Date
Quiz #1	10%	May 15
Quiz #2	10%	May 22
Quiz #3	10%	May 29
Term Paper Topic Proposal	20%	June 5
Quiz #4	10%	June 12
Final Term Paper	40%	June 26
<b>TOTAL</b>	<b>100%</b>	--

**Lecture Schedule:** Note, this schedule may be subject to minor adjustments.

<b>Date</b>	<b>Lecture Topic &amp; Readings</b>
<b>Week 1</b> May 5	<b>Intro &amp; Course Overview/Introduction &amp; History</b> Intro to Section I and Ch. 1
<b>Week 2</b> May 10, May 12	<b>The Brain/Sensation and Perception of Visual Signals</b> Ch. 2/Intro to Section II and Ch. 3 Quiz #1 (Complete by May 15)
<b>Week 3</b> May 17, May 19	<b>The Visual System/Spatial Cognition and Attention</b> Ch. 5/Ch. 6 Quiz #2 (Complete by May 22)
<b>Week 4</b> May 24, May 26	<b>Visual Object Recognition/Neural Basis of Memory</b> Intro to Section III and Ch. 9/Ch. 10 Quiz #3 (Complete by May 29)
<b>Week 5</b> May 31, June 2	<b>Declarative Long-Term Memory/Semantic Long-Term Memory</b> Ch. 11/Ch. 12 Term Paper Proposal Due (June 5)
<b>Week 6</b> June 7, June 9	<b>Working Memory/Cognitive Control</b> Ch. 13/Intro to Section IV and Ch. 14 Quiz #4 (Complete by June 12)
<b>Week 7</b> June 14, June 16	<b>Students' choice!</b>

### **Lectures**

Lectures will be held from 2:35 pm – 5:35 pm on Tuesdays and Thursdays in Tory Building, Room 236.

### **Office Hours**

Due to the ongoing Covid-19 pandemic, office hours will be held virtually using my Discord Server (<https://discord.gg/NbrGNuD>). Office hours should be scheduled by appointment/as needed. To schedule an appointment, you'll first need to download the Discord app, set up your account, and join my server using the above hyperlink.

Please don't be shy! I encourage everyone to request an appointment for a virtual meeting at any time if they have any questions or concerns.

### **Lectures and Readings**

You are expected to keep up with the readings assigned for this class and to attend lectures regularly. My lectures will help make the readings more accessible, but they are no substitute for reading the readings themselves. See the Lecture Schedule (above) and our course module on Brightspace for a list of readings for this class.

### **Quizzes**

In this class you will complete four online quizzes, which will be conducted on Brightspace. Students will have from the time the quiz opens until the completion date (see above) to complete their quizzes. Each quiz will consist of multiple choice, true/false and short answer questions, and will count toward 10% of your final grade for this class.

### **Term Paper Topic Proposal**

In this class you will be required to write a term paper, for which you must also write a proposal. Your topic proposal should be 750-1000 words in length, and it should identify the topic of your term paper, a thesis statement and/or research question, a rough outline of your intended paper, and an annotated bibliography of scholarly sources you'd like to use. The proposal is due at 11:59 pm on June 5<sup>th</sup> and is worth 20% of your final grade. Submit your proposal on Brightspace in .doc format.

### **Term Paper**

Your term paper, which serves as the final take-home examination for this class, is to be handed in via Brightspace on June 26 at 11:59 pm (the last day of the exam period). It is worth 40% of your final grade. The paper is to be approx. 2000-2500 words long (excluding titles pages and references section) and should deal with an idea or concept from this class that interests you. It must be submitted electronically on Brightspace in .doc format.

I will post an instructional video on my YouTube channel (<https://www.youtube.com/c/MindandMetal/>) – which I will also share on Brightspace – that explains how to select a topic, how to write your essay proposal, and how to write your final paper. I will provide detailed feedback on your essay topic proposals (see above), so I expect that the essays will be clearly and concisely written, be well-researched, and will cite sources properly. I encourage students to contact me if they have any questions about this assignment at any time.

### **Assignment Deferral Policy**

Students who are unable to complete a test or an assignment may ask for a deferral only under two conditions: illness or bereavement. Should you miss a test for these reasons, you must contact me by email within 24 hours of missing the test/assignment due date to request a deferral and arrange to provide me with the appropriate documentation (e.g., doctor's note, etc.).

### **Carleton Grading System**

In accordance with the Carleton University Undergraduate Calendar (p 34), the letter grades assigned in this course will have the following percentage equivalents:

A+ = 90-100	B+ = 77-79	C+ = 67-69	D+ = 57-59
A = 85-89	B = 73-76	C = 63-66	D = 53-56
A - = 80-84	B - = 70-72	C - = 60-62	D - = 50-52
F = Below 50			

Grades entered by Registrar:

WDN = Withdrawn from the course

DEF = Deferred

### **Academic Regulations, Accommodations, Etc.**

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university's website, here: <https://carleton.ca/>

## **Pregnancy obligation**

Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the Student Guide Religious obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the Student Guide.

## **Academic Accommodations for Students with Disabilities**

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613 - 520 - 6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in - class scheduled test or exam requiring accommodation (if applicable). After requesting an accommodation from PMC, meet with me to ensure accommodations arrangements are made. Please consult the PMC website for the deadlines to request accommodations for the formally - scheduled exam (if applicable).

## **Plagiarism**

The University Senate defines plagiarism as “presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.” This can include:

- reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source;
- submitting a take-home examination, essay, laboratory report or other assignment written, in whole or in part, by someone else;
- using ideas or direct, verbatim quotations, or paraphrased material, concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another’s data or research findings;
- failing to acknowledge sources through the use of proper citations when using another’s works and/or failing to use quotation marks;
- handing in "substantially the same piece of work for academic credit more than once without prior written permission of the course instructor in which the submission occurs."

Plagiarism is a serious offence that cannot be resolved directly by the course’s instructor. The Associate Dean of the Faculty conducts a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They can include a final grade of "F" for the course.

## **Important Information**

Students must always retain a hard copy of all work that is submitted.

All final grades are subject to the Dean’s approval.

For us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid CARLETON address. Therefore, in order to respond to your inquiries, please send all email from your Carleton CMail account. If you do not have or have yet to activate this account, you may wish to do so by visiting: <https://carleton.ca/its/>

**For a list of dates and deadlines, including holidays and exam dates, please visit:**

<https://carleton.ca/registrar/registration/dates/academic-dates/>

### **INFORMATION REGARDING COVID-19**

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are [a number of actions you can take](#) to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

**Feeling sick?** Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton's [symptom reporting protocols](#).

**Masks:** On the recommendation of Ottawa Public Health, Carleton will be maintaining the mandatory [COVID-19 Mask Policy](#) until further notice. The policy requires masks to be worn in all university buildings, including offices, classrooms and labs.

**Vaccines:** Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in [cuScreen](#) as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the [University's COVID-19 website](#) and review the [Frequently Asked Questions \(FAQs\)](#). Should you have additional questions after reviewing, please contact [covidinfo@carleton.ca](mailto:covidinfo@carleton.ca).