

# University of British Columbia

## PSYC304-901: Brain and Behaviour (first half of the course) Autumn 2020

### Simple summary of the course design:

Welcome to the first semester of your Brain & Behaviour course! I recognize that this was supposed to be an on-campus class, and I also recognize that many of you have unique challenges this semester in your responsibilities outside of class. As such, our class will be run in the most flexible way possible, to ensure that you are able to be successful in the course.

**So here's the quick and easy version of the course:** Lectures will be delivered to you as audio files, and you can “attend” lecture whenever you like; there will be slides to accompany the lectures. There will also be an optional, weekly, online Q&A session where you can ask me any questions about the lecture material or other class materials, or just hang out and feel like you're in a normal class for an hour; these Q&A sessions will be recorded, if you cannot attend. Your assignments will be in the form of a weekly quiz on the course website (the deadline for the quizzes will be each Sunday). You will also have three exams.

In other words, there will only be three days where your attendance at a specific time is absolutely required: the days of your exams. Even these can be moved a little, if, for example, you're in a different time zone. Everything else in the course, you will be able to do on your own schedule. And don't forget that the second half of the course is run by a different instructor, the amazing Dr. Steven Barnes, so his policies may differ from mine. Please read on for all the exhaustive details.

**As for what you'll be learning**, well, the name of this course is quite apt: Your brain is staggeringly complex, and responsible for what you call your “self”: all your preferences, perceptions, memories, dreams, ambitions, desires, goals, emotions, and unique inferences are housed within the “pile of pudding” that accounts for a mere 2-3% of your body. And humans take great advantage of this organ, whether it's creating works of art, lifelong friendships, space stations, or just appreciating the beauty of a sunset over the Pacific.

**This course is about linking the psychological background you have acquired**—in essence, a study of behaviour—**with the neurobiological underpinnings responsible for that behaviour.** To understand our very selves, and the roots of our mind's organization, we must start at the most fundamental unit of the nervous system: the neuron. Indeed, we will see how small changes in (for example) concentration of ions can radically alter our behaviour. From these basic building blocks of nervous system function, we will expand outward into a systems-level understanding of our basic sensory and motor systems, which will reveal evolution's influence on our brain's hierarchy and function.

- Instructor:** **Dr. Jay Hosking, Department of Psychology**  
**jayhosking@psych.ubc.ca**  
 I respond to emails seven days a week, but please bear in mind that my email volume is very high. When contacting me, please use your UBC email, and please note which course you are in, i.e. PSYC304-901.
- TA:** **Graeme Betts, bettsg@psych.ubc.ca**  
**Bonnie Lee, bonnie\_lee@psych.ubc.ca**
- Website:** **Canvas: <https://canvas.ubc.ca>**  
 Links to all lectures, slides, and additional readings will be posted here. Messages and announcements will also come through Canvas. Please let me know if you're having any issues with the website!
- Lectures:** Asynchronously delivered online as audio files plus slides, via Canvas
- Q&A (optional):** Every Tuesday, 5:00-6:30pm via **Zoom** on Canvas
- Office hours:** Held six hours a week; book via **<https://jayhosking.youcanbook.me>**
- TA office hours:** Please email Graeme or Bonnie for availability!
- Textbook:** **Pinel and Barnes's *Biopsychology*, Tenth Edition.**  
*Recommended, not required* for the first semester; *required* for the second semester. The previous edition is also perfectly fine.

**Grades breakdown:**

Weekly quizzes:	10%
Exam 1 (midterm):	13%
Exam 2 (midterm):	13.5%
Exam 3 ("final" of first semester):	13.5%
Total:	50%
Bonus research participation:	3%

**By the end of the first half of this course you will be able to:**

- Explain and critically evaluate current topics and research in the field of neuroscience
- Describe basic biopsychological processes
- Use critical thinking skills through discussion and analysis of neuroscience issues
- Define modern neuroscience and identify the major perspectives within it
- Recognize, recall, connect, and evaluate neuroscientific concepts and theories from specific subfields (e.g., behavioural vs. cognitive)
- Critically evaluate new evidence about brain and behaviour in your daily life
- Understand, describe and differentiate between commonly used research methods in neuroscience, including experimental and correlational designs

**Note on the Q&A sessions:**

These sessions are intended to handle all the questions you'd normally ask in class, as well as any questions that might be broadly applicable to your classmates. Class discussion is encouraged! If you have questions about the course content or course administration, please ask these during the Q&A sessions. Office hours are for personal/individual matters (see below). If for some reason you cannot make the Q&A session, please post your content questions on the discussion forum of the course website, and I will answer them during the Q&A session, which is recorded for you to watch later.

**Note: whom should you book office hours with?**

Please book office hours with your awesome TAs if:

- You would like to review one of your exams. When reviewing your exam, you are not allowed to take notes on, or photos of, the exam.
- You would like to discuss content from the course readings and/or study strategies.
- You would like to discuss psychology more generally.

Please book office hours with Dr. Hosking if:

- You have an issue with course performance or progress.
- You would like to discuss psychology and neuroscience more generally.

Again, please note that questions about lecture content should be handled during the Q&A sessions, not during office hours. If you feel reticent to speak up during the Q&A, which I totally understand, I encourage you to post your questions in the discussion forum of our Canvas page and I'll answer them on the Q&A.

**Note on booking office hours with Dr. Hosking:**

Please do not use email to book office hours with me. Instead, I have created a website for all office hours booking: <https://jayhosking.youcanbook.me>. The site will show all of my available office hours, as well as show a Zoom link for you to join. **Please refrain from using office hours to ask course content-related questions (this is what the Q&A sessions are for!),** and leave office hours for personal/individual matters, like your own progress in the course. Finally, please do not book me for multiple timeslots on a given day; there are many students that need help, virtually all issues can be handled within the allotted time, and I will cancel any multiple bookings.

**Note on email:**

Please bear in mind that we instructors get a lot of email and, if possible, would prefer to spend all our preparation time on making the lectures as useful, fun, and interesting to you as possible. Thus, please keep emails to administrative concerns (e.g. problems with the course website) if you can. For course-related content, please come to the Q&A or post it in the discussion forum on our course website. Finally, please use good email etiquette when contacting me—see lecture notes for more details.

**Note on attendance:**

“Attendance” is a critical predictor of success in this course. (In fact, it's a strong correlate of success for courses in general.) In this course, material that is taught in class will often be different from, or supplement, the readings. Moreover, lecture slides are designed to provide a framework for the lecture and any discussions. **In other words, the important part of the lecture is not what is on the slides, but rather the lecture audio itself. If you try to rely solely on the slides for studying, you will not be successful, as much of the critical information is not explicitly written.** It is therefore essential that you listen to the lectures.

### Note on readings:

The two newest editions of the textbook are sufficient for the course; other textbooks on behavioural neuroscience (e.g. Breedlove & Watson's Behavioral Neuroscience) are probably also sufficient (please check with me), at least for the semester in which I teach you. In the second semester, when the inestimable Dr. Barnes takes over, the Pinel & Barnes textbook will be required reading.

**For the first semester, material that is in the textbook but not in lecture will not be tested.** The purpose of the textbook is to act as a "second teacher", a way to learn the concepts in class from a slightly different perspective, to clarify things that might not make sense from my lecture. Reading the relevant chapters prior to the related lectures will likely make those lectures much easier for you.

## Course Schedule (Tentative)

Week	Dates	Topic	Relevant reading
1	Sept 8 <sup>th</sup> -13 <sup>th</sup>	Course orientation; quiz 1	This syllabus
2	Sept 14 <sup>th</sup> -20 <sup>th</sup>	Brain basics; quiz 2	Chapter 3
3	Sept 21 <sup>st</sup> -27 <sup>th</sup>	Research methods basics; quiz 3	Chapter 1
4	Sept 28 <sup>th</sup> -Oct 4 <sup>th</sup>	Neuroanatomy; quiz 4	Chapter 3
5	Oct 5 <sup>th</sup> -11 <sup>th</sup>	Neural communication I	Chapter 4
6	Oct 12 <sup>th</sup> -18 <sup>th</sup>	<b>EXAM 1 (October 13<sup>th</sup> 5-7pm)</b>	
7	Oct 19 <sup>th</sup> -25 <sup>th</sup>	Neural communication II; quiz 5	Chapter 4
8	Oct 26 <sup>th</sup> -Nov 1 <sup>st</sup>	Neuroscience research tools; quiz 6	Chapter 5
9	Nov 2 <sup>nd</sup> -8 <sup>th</sup>	The endocrine system; quiz 7	Chapter 13
10	Nov 9 <sup>th</sup> -15 <sup>th</sup>	<b>EXAM 2 (November 10<sup>th</sup> 5-7pm)</b>	
11	Nov 16 <sup>th</sup> -22 <sup>nd</sup>	Principles of sensation; touch; quiz 8	Chapter 7
12	Nov 23 <sup>rd</sup> -29 <sup>th</sup>	Vision; quiz 9	Chapter 6
13	Nov 30 <sup>th</sup> -Dec 7 <sup>th</sup>	The motor system; quiz 10	Chapter 8
Exams	Dec 7 <sup>th</sup> -22 <sup>nd</sup>	<b>EXAM 3 (DATE/TIME TBD)</b>	

## Evaluation

Note that this is for the first half of the course only, i.e. up to 50% of your grade for the entire course.

### 1. Exams (40%):

There will be three exams, with two midterm exams written during the class time, and the "final" exam written during the exam period at a time designated by UBC administration (you *must* be able to write at any time during the exam period).

**Midterm Exam 1 (13%)      October 13<sup>th</sup> 5-7pm**

**Midterm Exam 2 (13.5%)      November 10<sup>th</sup> 5-7pm**

**"Final" Exam 3 (13.5%)      December 7<sup>th</sup>-22<sup>nd</sup> (date & time TBD)**

### Notes on the exams:

- The exams are not cumulative, but the later material in the course clearly builds upon the earlier material.
- Please empower yourself by reading about UBC's academic concessions policies at <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,329,0,0>.
- Specifically, if you must miss a midterm exam due to acute illness that will spontaneously resolve (e.g. the 'flu), you do not need to supply me (or any of your other instructors) with a medical note. Note that this policy does not apply to exams during the final exam period (for "final" exams, see below).
- If your unavoidable hardship is not an acute illness that will spontaneously resolve, then you may have to present me with evidence of such hardship.
- In any case, you must contact me within 48 hours of the exam if you need accommodation for that exam. **If at all possible, please contact me about accommodations before the exam, not after.**
- Students who plan to be absent for varsity athletics, family obligations, or other commitments, cannot assume they will be accommodated, and must discuss their commitments with me **by September 18<sup>th</sup> 2020** if they wish to be considered for accommodation.
- Being accommodated for missing a midterm exam is at my sole discretion. Similarly, I may send you to your faculty Academic Advising if I feel ill-equipped to judge the nature of your hardship, as Advising has much more experience in the matter.
- **If you are accommodated for missing a midterm exam, you must write the exam within one week of the original test date.**
- If you miss the "final" exam (i.e. exam 3), you must contact your Faculty Academic Advising Office to address the issue—note that they will probably require unambiguous medical (or other) documentation.
- All exams will include multiple-choice and short-answer questions.
- Once exams have been marked, grades will be sent out via Canvas.
- You are strongly encouraged to review your exam with your awesome TAs.
- Grade adjustments are very uncommon but if a dispute between TA and student occurs for grading, Jay will regrade that component of your exam—this can result in the same grade, an increase, or a decrease, depending on Jay's judgement of your answer. Any grading disputes must be handled within 2 weeks of exam grades being released.

### 2. Weekly quizzes (10%):

These will be quizzes posted on Canvas and will complement the material we are learning in class on any given week. They will also give you a feel for what the questions will be like on the exams. Expect both multiple-choice and short-answer questions. Each of the ten quizzes is worth 1% of your final grade, for a total of 10%. You must submit your weekly quiz by the end of each week (i.e. by Sunday night at 11:59pm), and there are no late submissions. **If you do not submit the quiz, you will receive no marks.**

### 3. Research participation (up to 3% bonus):

You may earn up to 3 extra percentage points on your overall final grade by participating in studies regularly conducted by the Psychology Department and coordinated through the human subject pool (HSP). This provides you with the opportunity to observe the research process directly and to contribute to ongoing research activities at UBC. The extra credits are obtained by signing up for the subject pool at [ubc-psych.sona-systems.com](http://ubc-psych.sona-systems.com), or by completing

library writing projects (please see the HSP website). If you plan to earn extra credit through research participation, please register in this online system as soon as possible, as the participation window closes (you can find more details at [psych.ubc.ca/undergraduate/human-subject-pool/](http://psych.ubc.ca/undergraduate/human-subject-pool/)).

## Grading

In order to reduce grade inflation and maintain equity across course sections, all psychology courses are required to comply with departmental norms for grade distributions. According to departmental norms, the mean grade in a 300-level class is 70% for a good class, 68% for an average class, and 66% for a weak class (with a standard deviation of 14%). Scaling may be used in order to comply with these norms; grades may be scaled up or down as necessary by the instructors or the department. **Note that due to our current pandemic circumstances, these policies are relaxed by up to five percent.**

Grades are not official until they appear on your transcript. You will receive both a percent and a letter grade for this course. At UBC, your course percentage is converted to a letter grade according to the following key:

A+: 90-100%	A: 85-89%	A-: 80-84%
B+: 76-79%	B: 72-75%	B-: 68-71%
C+: 64-67%	C: 60-63%	C-: 55-59%
D: 50-54%	F: 0-49%	

Because you are earning a degree at a highly reputable post-secondary institution, the criteria for success are high. The Faculty of Arts offers the following guidelines that broadly characterize the kind of work that is generally associated with the particular grade ranges. These characteristics help put the Psychology Department grading policies into perspective. **Please note that adequate performance is in the C range.**

**A Range:** Exceptional Performance. Strong evidence of original thinking; good organization in written work; capacity to analyze (i.e. break ideas down) and to synthesize (i.e. bring different ideas together in a coherent way); superior grasp of subject matter with sound critical evaluations; evidence of extensive knowledge base.

**B Range:** Competent Performance. Evidence of grasp of subject matter; some evidence of critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.

**C-D Range:** Adequate Performance. Understanding of the subject matter; ability to develop solutions to simple problems in the material; acceptable but uninspired work; not seriously faulty but lacking style and vigor.

**F Range:** Inadequate Performance. Little or no evidence of understanding of the subject matter; weakness in critical and analytical skills; limited or irrelevant use of the literature.

## UBC's statement about the University's values and policies

*UBC provides resources to support student learning and to maintain healthy lifestyles but recognizes that sometimes crises arise and so there are additional resources to access including those for survivors of sexual violence. UBC values respect for the person and ideas of all members of the academic community. Harassment and discrimination are not tolerated nor is suppression of academic freedom. UBC provides appropriate accommodation for students with disabilities and for religious and cultural observances. UBC values academic honesty and*

students are expected to acknowledge the ideas generated by others and to uphold the highest academic standards in all of their actions. Details of the policies and how to access support are available here: <https://senate.ubc.ca/policiesresources-support-student-success>

## **UBC's statement on potentially sensitive topics while studying abroad**

*During this pandemic, the shift to online learning has greatly altered teaching and studying at UBC, including changes to health and safety considerations. Keep in mind that some UBC courses might cover topics that are censored or considered illegal by non-Canadian governments. This may include, but is not limited to, human rights, representative government, defamation, obscenity, gender or sexuality, and historical or current geopolitical controversies. If you are a student living abroad, you will be subject to the laws of your local jurisdiction, and your local authorities might limit your access to course material or take punitive action against you. UBC is strongly committed to academic freedom, but has no control over foreign authorities (please visit <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,33,86,0> for an articulation of the values of the University conveyed in the Senate Statement on Academic Freedom). Thus, we recognize that students will have legitimate reason to exercise caution in studying certain subjects. If you have concerns regarding your personal situation, consider postponing taking a course with manifest risks, until you are back on campus or reach out to your academic advisor to find substitute courses. For further information and support, please visit: <http://academic.ubc.ca/support-resources/freedom-expression>*

## **Academic integrity and avoiding misconduct**

The following is verbatim, with only some light modifications, from materials given to me by UBC's Dr. Catherine Rawn, speaking for the Department of Psychology and the Faculty of Arts:

*In the academic community—a community of which you are now a part—we deal in ideas. That's our currency, our way of advancing knowledge. By representing our own and others' contributions in an honest way, we are (1) respecting the rules of this academic community, and (2) showcasing how our own novel ideas are distinct from but relate to their ideas. APA style gives us a formal way to indicate where our ideas end and where others' begin. But academic integrity goes well beyond formal citation. **Welcome to the academic community. You are expected to act honestly and ethically in all your academic activities, just like the rest of us.***

*Make sure you understand UBC's definitions of [academic misconduct](#), [consequences](#), and expectation that students must clarify how [academic honesty](#) applies for a given assignment. Please ask if you're not sure. (While you're checking out the calendar, you might want to check out the "[Student Declaration and Responsibility](#)" statement you agreed to when you registered.)*

**What does academic integrity look like in this course?** *If at any time you are unsure if a certain type of assistance is authorized, please ask. If you have a need that is unmet by existing course materials, course structure, and/or our learning community members, please ask. In the meantime, here are some guiding principles for what academic integrity looks like:*

**Do your own work.** *All individual work that you submit should be completed by you and submitted by you. All assessments, large and small, are designed to help you learn the material. It is unacceptable to use an editor (paid or unpaid) without my permission to revise, correct, or alter your work, because your submission is no longer your own work. It is unacceptable to*

*buy/sell/swap/share assignment questions or answers on any platform. It is unacceptable to misrepresent your identity by using someone else to complete any portion of a course (e.g., comment on a discussion board, complete a quiz question). It is unacceptable to help someone else cheat.*

**Avoid collusion.** *Collusion is a form of academic integrity violation that involves working too closely together without authorization, such that the resulting submitted work gains unfair advantage over other students because is a measurement of the group/pair/others' understanding rather than the individual understanding (definition adapted from [OpenLearn](#)). For example, collusion on a test includes working together to write answers or answering someone else's question in a WhatsApp chat. See more examples of collusion [here](#). There are no assignments in this course that are the product of group collaboration, so please do not collaborate on any quizzes, exams, or projects. Preparing to individually complete an assignment or test by studying together (e.g., discussing concepts, quizzing each other and giving feedback on each others' answers) doesn't count as collusion.*

**Can I work with a classmate to co-create study notes?** *Yes, you can create your own original collaborative notes.*

**Do not share materials provided for you to use in this course.** *We are working hard to provide all the materials you need to succeed in this course. In return, please respect our work and the enormous efforts that went into making this class. All assignment instructions, quiz questions and answers, discussion questions, announcements, PowerPoint slides, audio/video recordings, Canvas modules, and any other materials provided to you by myself or the TAs are for use in this course by students currently enrolled in this course. It is unacceptable to share any of these materials beyond our course, including by posting on file-sharing websites (e.g., CourseHero, GoogleDocs). Please respect our intellectual property.*

**Acknowledge others' ideas.** *Scholars build on the work of others, and give credit accordingly—this is a quality of strong academic work. Citing sources in both formal and informal ways will be essential, and appropriate, depending on the assignment.*

**Learn to avoid unintentional plagiarism.** *Visit the Learning Commons' guide to academic integrity to help you organize your writing as well as understand how to prevent unintentional plagiarism, which can be challenging when first learning to paraphrase. Visit <http://learningcommons.ubc.ca/resource-guides/avoiding-plagiarism/>. An example tip: Do not copy and paste text from other sources, including other people's work, even in a draft. It's easy to unintentionally misrepresent those words as your own in a later draft.*

## **Other Course Policies**

During your time in this course, if you encounter medical, emotional, or other personal problems that affect your attendance or academic performance, **please notify me as soon as possible, as well as your Faculty Academic Advising Office.** Please refer to the UBC Calendar for a discussion of academic concession.

The university accommodates students with disabilities who have registered with the Centre for Accessibility office (see below). The university also accommodates students whose religious obligations conflict with attendance or scheduled exams. **Please let me know in**



**advance, by September 18<sup>th</sup> 2020 if possible, if you will require any accommodation on these grounds.** Other absences (e.g. varsity athletics, family obligations, or similar) are not part of the university policy and you should not assume they will be accommodated. Please discuss these with me by September 18<sup>th</sup> 2020.

**The Centre for Accessibility (previously Access & Diversity).** UBC is committed to equal opportunity in education for all students including those with documented physical or learning disabilities. If you believe you fall in this category, please visit the website for the Centre for Accessibility ([students.ubc.ca/about/access](http://students.ubc.ca/about/access)) to take the necessary steps to ensure that you have every opportunity that you deserve to excel in your studies.

**Classroom conduct.** Our classroom is a place where you should feel safe and respected. It should also be a place that is conducive to learning and intellectual inquiry. Any behaviour on your part that compromises that environment will not be tolerated and you will be asked to leave.

**Points to remember!:**

- Productive classroom discussion and debate are encouraged.
- You are responsible for all readings and lecture materials.
- Lecture slides will be available on Canvas. However, if you miss a lecture, don't expect to find all of what you missed in the slides.
- Lecture slides will be posted on Canvas on the Sunday before the next week begins, or earlier. This is done as a courtesy, and in rare circumstances these may arrive on the official lecture day, i.e. Tuesday.
- Please be aware that some of the content in this course can be challenging for those without some background in biology. I will provide additional, optional reading sources for you to pursue, should you request it.

**Wellness Resources**

Below is a list of resources you may want to use if you are struggling in any way to manage your responsibilities while in school or the stresses of life in general. I recognize that this year will be particularly challenging for some of us, and I will be operating from a position of generosity, flexibility, and kindness.

**The Kaleidoscope:**

[the-kaleidoscope.com](http://the-kaleidoscope.com)

A confidential peer-run mental health support group that takes place on campus at least once a week. You may attend the group if you are experiencing any kind of mental health related challenges, or if you're just feeling stressed about school in general. Registration is not required to attend the group. See the website for meeting times and locations. Food and drink are provided.

**Counselling Services:**

[students.ubc.ca/livewell/services/counselling-services](http://students.ubc.ca/livewell/services/counselling-services)

Phone number: 604-822-3811

Counselling services offers a variety of resources to help you maintain your mental health while in school. You may see a counsellor on an individual basis, attend group counselling, or to document an illness if you should require academic concession.

**SpeakEasy:**

[ams.ubc.ca/services/speakeasy/](http://ams.ubc.ca/services/speakeasy/)

Phone number: 604-822-9246

A student run service that offers confidential support for students experiencing crisis. Also a good resource for additional information and referrals within the UBC community.

**SHARE:**

[www.vivreshare.org](http://www.vivreshare.org)

Self Harm Anonymous Recovery and Education is a program designed to promote self care and educate about self harm. SHARE support groups meet biweekly; times and locations can be found on their website.

**UBC Wellness Centre:**

[students.ubc.ca/livewell/services/wellness-centre](http://students.ubc.ca/livewell/services/wellness-centre)

Phone number: 604-822-8450

Speak with other students about tips for managing stress, keeping healthy sleep and eating patterns, concerns about safe sex and more.

**Access and Diversity:**

[students.ubc.ca/about/access](http://students.ubc.ca/about/access)

Phone number: 604-822-5844

Access and Diversity provides accommodations for students living with physical or mental disabilities.

**Student Health Services:**

[students.ubc.ca/livewell/services/student-health-service](http://students.ubc.ca/livewell/services/student-health-service)

Phone number: 604- 822-7011

Student health provides students with a variety of healthcare related services to help you maintain your health while studying. Access to doctors and registered nurses.

**Mood Disorders Clinic UBC:**

[ubc-mooddisorders.vch.ca/](http://ubc-mooddisorders.vch.ca/)

A psychiatric program designed specifically to treat individuals living with depression or bipolar disorder.

**Live Well, Learn Well:**

[students.ubc.ca/livewelllearnwell](http://students.ubc.ca/livewelllearnwell)

The Live Well, Learn Well initiative is a resource hub that provides students with information to help improve physical and mental wellbeing.

**Mental Health Awareness Club:**

[ubcmhac.sites.olt.ubc.ca/](http://ubcmhac.sites.olt.ubc.ca/)

A club that offers opportunities to speak about mental health with others and strives to promote mental health awareness throughout the UBC community.

**Pacific Spirit Addiction Services:**

3rd Floor, 2110 West 43rd Ave Vancouver B.C. V6M 2E1

Phone number: 604-267-3970

A free and confidential service for youth and young adults up to the age of 24. Services include counselling, access to an addiction physician—including usage of a methadone maintenance program—and a drug education series.

**AMS Food Bank:**

[ams.ubc.ca/services/food-bank/](http://ams.ubc.ca/services/food-bank/)

If you are in a financial emergency AMS food bank can provide you with a food hamper. You are able to use the service up to 6 times each term.

**UBC Psychology Clinic:**

[clinic.psych.ubc.ca](http://clinic.psych.ubc.ca)

Professional psychological services provided to the community, including assessment & treatment for children, adults & families by clinical psychology trainees.

**BC Crisis Center:**

[crisiscentre.bc.ca](http://crisiscentre.bc.ca)

Phone number: 604-872-3311

Non-profit, volunteer-driven organization that provides emotional support to youth, adults, and seniors in crisis in BC. Crisis line available 24/7.

**Distress Line:**

Phone number: 1-800-Suicide (784-2433)

If you are in distress or are worried about someone in distress who may hurt themselves, call 1-800-SUICIDE 24 hours a day to connect to a BC crisis line, without a wait or busy signal.

PSYCHOLOGY 304-901: BRAIN AND BEHAVIOUR  
2020W - Term 2

**INSTRUCTOR:** Debra Bercovici  
[debrabercovici@psych.ubc.ca](mailto:debrabercovici@psych.ubc.ca)

I try my best to respond within 24 business day hours. To help me prioritize *your* emails, please put the course code (PSYC304-901) in the subject line of your emails

**TAs:** Graeme Betts, [betts@psych.ubc.ca](mailto:betts@psych.ubc.ca)  
Bonnie Lee, [bonnie\\_lee@psych.ubc.ca](mailto:bonnie_lee@psych.ubc.ca)  
Fouziah Khirarati, [fouziahk@student.ubc.ca](mailto:fouziahk@student.ubc.ca)

Welcome to term 2 of Brain & Behaviour! To try and accommodate all the challenges you may be facing this semester, this class is designed to be a smooth transition from Term 1, with some changes (hopefully improvements?) to match my teaching style and your feedback from last term. Just like last semester, this class will continue to be run in the most flexible way possible. Over the next 13 weeks I'll be going over some of my favourite brain and behaviour topics and I hope you'll find these intersections between neurobiology and psychology as interesting as I do!

**LEARNING OUTCOMES:** By the end of this course, you should be able to

- integrate 'basic' brain concepts from term 1 with more 'high-level' topics this term
- draw connections between psychological concepts and neurobiological underpinnings
- understand and use the language of biopsychology and neuroscience
- navigate the biopsychology and neuroscience literatures with some confidence
- apply biopsychological knowledge in your everyday life

**LECTURES:** Delivered *asynchronously* via *Canvas Modules* posted each week. Go through each module whenever is convenient for you. Modules will be a mixture of video files, audio files, and Canvas pages to work through. There will be a checklist at the beginning of each week to help keep you on track.



**B&B CHATS:** *Live every Tuesday, 5:00-6:30pm PST via Zoom on Canvas.*

**Note:** you must AUTHENTICATE (i.e. login) and REGISTER the first time you decide to join. Once you register, you can attend any/all the B&B chats during the semester.

These optional B&B (brain & behaviour) chats/hangouts are for:

- going in depth about some of the highlights of each week's "lecture" material
- asking questions about course content and structure
- addressing questions posted on the Q&A discussion board on Canvas
- discussing interesting and fun brain and behaviour stuff
- talking about university in general/grad school/what research is like/how you're doing...
- meeting your pets

B&B chats will be recorded and posted on Canvas

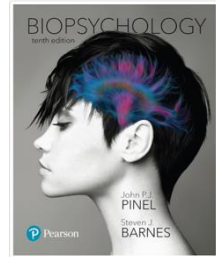
**Q&A DISCUSSION BOARD:** This discussion board is a place to ask anything course related. Your TAs will monitor the discussion board and identify any content-related questions that would benefit from being

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discussed during B&B chats. If you have a question but don't want to speak up during B&B chats, putting it on the discussion board is a great place to get it answered. The discussion board is interactive, treat it like social media and like and comment on each others posts to increase visibility!

**TEXTBOOK: Pinel and Barnes' *Biopsychology*, Tenth Edition.**

The online textbook is needed to complete the associated Revel reading assignments. Additionally, material only found in the textbook but not presented in lecture is testable. Reading relevant chapters prior to completing the related module is *recommended*.



**OFFICE HOURS:** By appointment

Please book office hours with your awesome TAs if:

- you want to go over your exams
- you have questions about the course content
- you need study tips and strategies

Please book office hours with Debra if:

- you have an issue with course progress/performance
- you would like to discuss something that requires discretion

**GRADE BREAKDOWN:**

5x Revel Assignments:	1% each for a total of 5%
3x Exams:	15% each for a total of 45%
Total:	50%

At the end of term 2 your grade from term 1 will be combined to form your final grade for PSYC 304. I will be compiling grades from both semesters, but keep in mind that I ultimately do not have the power to modify the 50% of your grade earned from term 1. HSP credit earned during term 1 will be added to your final grade.

**REVEL READING ASSIGNMENTS:** We will be using the Revel platform that accompanies your textbook. This platform offers a richer media experience and also offers many self-check questions to help you self-assess your understanding of the text readings.

Log into Revel (registration instructions found on Week 1 Canvas Module) and complete the assigned Revel assignments before the due date. Each assignment is tied to a chapter and will be due at 11:59pm on Sundays of the same week that this topic is covered in lecture.

The purpose of these assignments is to motivate you to keep up with course material. I've heard from a lot of you that keeping up is difficult with the online course format but that weekly quizzes are too much. If you do the readings and complete the quiz, the 5% is intended to be an easy grade booster. Late submissions will not be accepted.

**EXAMS:** These are not cumulative. Exam 4 and 5 will take place instead of B&B chats on Tuesdays at 5pm PST. This means you cannot write the exam whenever you want. If you are not in the Vancouver PST time zone, you will be eligible to write during the alternate seating, which takes place on the same days at 9am PST. Complete the Canvas survey by the end of week 2 of classes (January 24<sup>th</sup> @ 11:59pm PST) if you want to write during the alternate time. Exam 6 will take place during "final exam period".

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Once the official date and time is set, a survey for an alternate seating (if needed) will be announced through Canvas.

Exams will be composed of both multiple-choice questions and short answers. You will be responsible for all material covered in the lecture modules, as well as in the textbook for all related chapters.

In the unlikely event of a grade disagreement between you and your TA, Debra will regrade the *entire* short answer question under dispute. Note that this can result in the same grade, an increase, or a decrease. My regrades are final. Grade disputes must be handled within 2 weeks of the exam grades being released.

**TENTATIVE COURSE CALENDAR:**

Week	Date	Topic	Assignments
1	Jan 11 – Jan 17	Intro + syllabus	
2	Jan 18 – Jan 24	Feeding Behaviour (Ch 12)	Ch 12 quiz (Revel)
3	Jan 25 – Jan 31	Hormones and Sex (Ch 13)	
4	Feb 1 – Feb 7	Sleep & Biological Rhythms (Ch 14)	Ch 14 quiz (Revel)
5	Feb 8 – Feb 14	<b>EXAM 4 (Feb 9 @ 5pm PST) (15%)</b>	
BREAK	Feb 15 – Feb 21	READING WEEK!!!	
6	Feb 22 – Feb 28	Emotions, Aggression, & Stress (Ch 17)	
7	Mar 1 – Mar 7	Learning & Memory 1 (Ch 11)	
8	Mar 8 – Mar 14	Learning & Memory 2 (Ch 11)	Ch 11 quiz (Revel)
9	Mar15 – Mar21	<b>EXAM 5 (Mar 16 @ 5pm PST) (15%)</b>	
10	Mar22 – Mar28	Reward & Drug Addiction 1 (Ch 15)	
11	Mar 29 – Apr 4	Reward & Drug Addiction 2 (Ch 15)	Ch 15 quiz (Revel)
12	Apr 5 – Apr 11	Psychiatric Disorders 1 (Ch 18)	
13	Apr 12 – Apr 18	Psychiatric Disorders 2 (Ch 18)	Ch 18 quiz (Revel)
EXAMS	Apr 18 – Apr 29	<b>EXAM 6 (DATE TBD) (15%)</b>	

**ACADMIC CONCESSIONS:** If you miss an exam due to acute situations, please contact me (Debra) as soon as you can. I will not require any sort of note, however contacting me sooner rather than later makes setting up accommodations easier. If your hardship is more long-term, we will likely need to meet and discuss options. *For either case you must contact me within 48hrs of the exam, and if at all possible, before the exam has happened.*

It is at my discretion to accommodate you for missing an exam. If I feel that I am not capable of offering you the support that you need, I may direct you to Academic Advising - they are better equipped to field the diverse range of hardship students may face.

Keep in mind that since I will be releasing your graded exam questions on Canvas for review, once they have been released, it will be too late to write a make-up exam.

**CLASSROOM CONDUCT:** Our course space should be a place where you and I feel safe and respected. It should also be a place that is conducive to learning and intellectual inquiry. Any behaviour on your part

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that compromises that environment will not be tolerated and you will be removed from Zoom and/or Canvas.

**WELLNESS RESOURCES:** Wellness resources are available in the Student Resources Canvas module.

**CENTRE FOR ACCESSIBILITY:** UBC is committed to equal opportunity in education for all students including those with documented physical or learning disabilities. If you believe you fall in this category, please visit the website for the Centre for Accessibility (<https://students.ubc.ca/about-student-services/centre-for-accessibility>) to take the necessary steps to ensure that you have every opportunity that you deserve to excel in your studies.

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## UBC and Psychology Department Policies to be aware of

### GRADING

In order to maintain a level of equity across course sections, all psychology courses are required to comply with departmental norms for grade distributions. For a 300-level class, averages tend to be around 68% for an average class, 70% for a good class, and 65% for a weak class (SD 14%). *Your grades may be scaled up or down to comply with these norms.* However, due to pandemic circumstances, normal grade distribution policies are relaxed by up to 5%. With this in mind, remember that grades are not official until they appear on your transcript.

At UBC, final percentage grades are converted to letter grades according to the following key:

A+: 90-100%	A: 85-89%	A-: 80-84%
B+: 76-79%	B: 72-75%	B-: 68-71%
C+: 64-67%	C: 60-63%	C-: 55-59%
D: 50-54%	F: 0-49%	

Because you are earning a degree at a highly reputable post-secondary institution, the criteria for success are high. The Faculty of Arts offers the following guidelines that broadly characterize the kind of work that is generally associated with the particular grade ranges. These characteristics help put the Psychology Department grading policies into perspective. *Please note that adequate performance is in the C range.*

**A range:** Exceptional Performance → Strong evidence of original thinking; good organization in written work; capacity to analyze and synthesize; superior grasp of subject matter with sound critical evaluations; evidence of extensive knowledge base.

**B range:** Competent Performance → Evidence of grasp of subject matter; some evidence of critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.

**C-D range:** Adequate Performance → Understanding of the subject matter; ability to develop solutions to simple problems in the material; acceptable but uninspired work; not seriously faulty but lacking style and vigor.

**F range:** Inadequate Performance → Little or no evidence of understanding of the subject matter; weakness in critical and analytical skills; limited or irrelevant use of the literature.

### UBC's statement on potentially sensitive topics while studying abroad

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*During this pandemic, the shift to online learning has greatly altered teaching and studying at UBC, including changes to health and safety considerations. Keep in mind that some UBC courses might cover topics that are censored or considered illegal by non-Canadian governments. This may include, but is not limited to, human rights, representative government, defamation, obscenity, gender or sexuality, and historical or current geopolitical controversies. If you are a student living abroad, you will be subject to the laws of your local jurisdiction, and your local authorities might limit your access to course material or take punitive action against you. UBC is strongly committed to academic freedom, but has no control over foreign authorities (please visit <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,33,86,0> for an articulation of the values of the University conveyed in the Senate Statement on Academic Freedom). Thus, we recognize that students will have legitimate reason to exercise caution in studying certain subjects. If you have concerns regarding your personal situation, consider postponing taking a course with manifest risks, until you are back on campus or reach out to your academic advisor to find substitute courses. For further information and support, please visit: <http://academic.ubc.ca/support-resources/freedom-expression>*

**ACADEMIC MISCONDUCT:** Cheating, plagiarism, and other forms of academic misconduct are very serious concerns of the University and the Department of Psychology. In all cases of suspected academic misconduct, the parties involved will be pursued to the fullest extent dictated by the guidelines of the University. Strong evidence of cheating or plagiarism may result in a zero credit for the work in question. According to the University Act (section 61), the President of UBC has the right to impose harsher penalties including (but not limited to) a failing grade for the course, suspension from the University, cancellation of scholarships, or a notation added to the student's transcript. All graded work in this course, unless otherwise specified, is to be original work done independently by individuals. If you have any questions as to whether what you are doing is even a borderline case of academic misconduct, please consult with me. For details on pertinent University policies and procedures, please see Chapter 5 in the UBC Calendar ([students.ubc.ca/calendar](http://students.ubc.ca/calendar)) and read the University's Policy 69 (available at [universitycounsel.ubc.ca/policies/policy69.html](http://universitycounsel.ubc.ca/policies/policy69.html)).

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