INSTRUCTOR
Dr. Ayesha Khan Room: PC 107 Email: khan_pnb@mcmaster.ca
Please include the course code (Psych 2NF3) in the subject of all E-mails
Information about weekly office hours is available on Avenue to Learn

TEACHING ASSISTANTS
Contact information is available on Avenue to Learn (Avenue). Please do not send messages via Avenue mail, as this inbox is not checked on a regular basis. Students are highly encouraged to use the discussion forums on Avenue to ask questions about course policies and about the course content.

COURSE DESCRIPTION
This course provides an introduction to neuropsychology: The study of behaviour due to brain activity. Clinical neuropsychologists perform various tests to assess brain damage. Traditionally, neuropsychologists have studied the brain by observing the behaviours of patients with localized brain damage and single-case studies have served as the framework for understanding the function of different brain regions. Today, various imaging techniques assist with patient diagnosis and help to support the conclusions made from behavioural assessments in clinical practice. In this course, students study neuropsychology by learning about human neuroanatomy, patient case histories, and assessment techniques to appreciate the relationship between brain and behaviour.

This course serves as an EXPERIENTIAL requirement for the degrees of many students across campus. This term, students will work together in tutorials on SOLVE Global Challenge from MIT (Massachusetts Institute of Technology; SOLVE, 2017) to create and implement community-based projects around the theme of BRAIN HEALTH. Each student will collaborate in a team with about three other members and think about how best to communicate complex scientific information to a target audience with the mission of raising awareness about brain health and by creating an innovative solution to a single question initially posed by the MIT challenge: How can every person improve their brain health?

COURSE AIMS
Through their study of neuropsychology, students learn the answers to a variety of questions including:
1. Is a direct blow to the head the only way to experience a concussion?
2. Why did The New York Times write an obituary about amnesic patient H.M.?
3. Why are brain scientists interested in the ancient practice of mindfulness meditation?
4. How was brain function determined before the invention of brain imaging techniques?
5. Why do some athletes in contact sports experience long-term neurological damage while others do not?
6. J.P. and J.M. go to the pub to have the same amount of beer. Why is J.P. the only one who gets drunk?
7. What are the different behavioural symptoms of Alzheimer’s, Parkinson’s disease, & multiple sclerosis?
COURSE OBJECTIVES

By the end of this course, students gain a fundamental understanding of neuroanatomy and brain function, and a better ability to identify essential behavioural changes that arise due to brain damage. Through community engagement projects about brain health, students contribute to the knowledge of others outside the classroom.

COURSE FORMAT

January 8th to April 9th 2021
Two 50-minute in-class lectures: Tuesdays and Fridays at 3:30PM in BSB 104
One 50-minute tutorial: Information available on MOSAIC

REQUIRED TEXTS & MATERIALS

Please do not purchase a textbook from other sources as we have a unique coursepack for our course.

You may buy a used copy of the coursepack from a student who has completed this course in the fall of 2019.

COURSEPACK INFORMATION

Fundamentals of Human Neuropsychology
The coursepack is available at the Campus Store.

A copy is also available in Thode Library for short-term loan.

Students are expected to read all chapters listed in the course schedule in order to prepare for online quizzes, in-class tests, and the final exam.

ONLINE CONTENT

This course uses Avenue to post the course outline, assignments, and other notices. Go to http://avenue.mcmaster.ca to find out how to log-on to the course platform.

Students should be aware when they access the electronic components of this course, private information such as first and last names, usernames for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure, please discuss this with the course instructor.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>COURSEPACK READINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – January 8th</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td><strong>WEEKLY SCHEDULE</strong></td>
<td><strong>TOPIC</strong></td>
<td><strong>COURSEPACK READINGS</strong></td>
</tr>
<tr>
<td>2 – January 12th</td>
<td>Development of Neuropsychology</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>2 – January 19th</td>
<td>Psychopharmacology of Alcohol</td>
<td>Chapter 10; read pp. 265-270, pp. 276-277 (the section on Brain Damage), read Box 10.2, &amp; read Table 10.3 only</td>
</tr>
<tr>
<td>3 – January 26th</td>
<td>Neuropsychological Assessment</td>
<td>Chapter 28; except tables 28.1, 28.2, 28.3, and figure 28.2</td>
</tr>
<tr>
<td>4 – February 2nd</td>
<td>Stroke, Sport Related Injuries &amp; Other Assaults on the Brain</td>
<td>Lecture notes only</td>
</tr>
<tr>
<td>5 – February 9th</td>
<td>Anatomy of the Nervous System</td>
<td>Chapter 3; except figures 3.10A&amp;B, 3.12B, 3.15, 3.20, 3.26, 3.27</td>
</tr>
<tr>
<td>6 – February 23rd</td>
<td>Neuropsychology of Meditation</td>
<td>Lecture notes only</td>
</tr>
<tr>
<td>7 – March 2nd</td>
<td>Test 1 [Tuesday. Held During Class – BSB 147]</td>
<td>Imaging the Brain’s Activity [Friday – Chapter 7]</td>
</tr>
<tr>
<td>10 – March 23rd</td>
<td>Test 2 [Tuesday. Held in Class – BSB 147]</td>
<td>The Temporal Lobes [Friday]</td>
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<tr>
<td>11 – March 30th</td>
<td>The Temporal Lobes</td>
<td>Chapter 15 cont’d</td>
</tr>
<tr>
<td>12 – April 6th</td>
<td>The Frontal Lobes</td>
<td>Chapter 16; except figures 16.2, 16.3, and tables 16.1, 16.2, 16.4</td>
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EVALUATION

Midterm Tests & the Final Exam

• The format of each test and the final exam is multiple-choice questions.
• Make-up tests might be in a different format (e.g., all short answer or a combination of short answer and multiple choice questions).
• Each test includes questions from content presented in the lecture, the lecture notes, guest speakers, supplementary links posted under the lecture notes section on Avenue, and the coursepack.
• The second midterm is not cumulative: Students are tested on materials reviewed after the first test.
• Information presented via guest speakers, in video or audio format is testable on the term tests and the final exam. Due to copyright issues, it may not be possible to post videos/audio recordings presented in class on Avenue. If you miss a class, please ask a classmate for lecture notes.
• The final exam is 2.5 hours in duration and it is cumulative, covering questions from all chapters, lecture notes, guest speakers, and audio/video presentations from throughout the semester.

BONUS Online Quizzes

• To allow practice with multiple-choice questions and to encourage a regular study habit, weekly bonus quizzes are administered online via Avenue.
• Students may use these quizzes as ‘open-book tests’. Although, we highly recommend that each quiz is treated as an actual test and questions are answered without aids in order to gain practice for midterms and the final exam.
• A link to each quiz becomes available by 5PM on a given Friday. This link remains available until 5PM the following Friday. For example, if a quiz link is posted on Friday at 5PM on January 8th, then this link will remain available until 5PM on January 15th.
• A student may click on the link and launch the quiz at any time during the relevant week. However, once a quiz launches then all quiz questions must be answered in one sitting and at one time.
• If you exit the quiz halfway, then the questions not answered will have zero marks associated with them.
• Please make sure that you have access to a reliable Internet connection. Unfortunately, we do not have the person power to deal with individual concerns around challenges related to technical issues (e.g., computer breakdown or internet access).
• Please do not submit an MSAF for missing a quiz, as this is a BONUS option. If you miss a quiz, then you will receive a zero for that quiz. At the end of the course, we will take an average of ALL quizzes and add this average to the final course mark as a bonus grade.
• Each quiz mostly contains questions from readings and lecture materials from that week alone. Disclaimer: It is possible for a question to be included in a quiz from previous readings. Students are responsible for keeping up-to-date with course materials and therefore if a question is included from a previous week, then we expect that students should be able to answer such questions.
MacEngaged: Community Engagement Project

- Detailed information about the project is available on Avenue.

We will be using a points scheme (to be converted to a percentage) to determine the final course grades. It is not possible to re-weight the amount allocated to the various assessments. To convert each assessment into a percentage, simply divide the individual assessment by the total number of points at the bottom of the table.

<table>
<thead>
<tr>
<th>ASSESSMENT</th>
<th>POINTS</th>
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<tbody>
<tr>
<td>Midterm 1 Held during regular lecture time</td>
<td>125 points</td>
</tr>
<tr>
<td>Midterm 2 Held during regular lecture time</td>
<td>125 points</td>
</tr>
<tr>
<td>Cumulative Final Exam Scheduled by the Registrar (see MOSAIC)</td>
<td>250 points</td>
</tr>
<tr>
<td>Community Engagement Project</td>
<td>500 points</td>
</tr>
<tr>
<td>Online quizzes</td>
<td>30 points (bonus)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1000 points</strong></td>
</tr>
</tbody>
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**POLICY ON EXTENSIONS, LATE PENALTIES, AND ACCOMODATIONS FOR MISSED WORK**

**McMaster Student Absence Form (MSAF).** Requests for missed academic work worth less than 25% of the final grade resulting from personal or medical situations, lasting up to 3 calendar days, can be reported, **once per term**, without documentation, using the McMaster Student Absence Form (MSAF). Relief for missed work for a longer duration or for other reasons must be reported to your Faculty office, and relief from term work may not necessarily be granted. When using the MSAF, report your absence to the course instructor or designate. You must then contact the Instructor/Instructional Assistant/other immediately (normally within 2 working days) by e-mail. Please refer to the contact list on the first page of this outline for appropriate e-mail addresses. The Instructor/Instructional assistant will indicate what relief may be granted for the work you have missed, and relevant details such as revised deadlines, or time and location of a make-up exam/quiz/test. Please note that the MSAF may not be used for final deliverables, nor can it be used for a final examination or its equivalent. Please review and follow the Academic Regulation in the Undergraduate Calendar under “Requests for Relief for Missed Academic Term Work” here: [https://academiccalendars.romcmaster.ca/content.php?catoid=41&navoid=8622](https://academiccalendars.romcmaster.ca/content.php?catoid=41&navoid=8622)

We recognize that the use and reliance on the MSAF by students is closely tied with both stress and time management. With that in mind, we have developed a more flexible grading scheme to help you plan and manage both stress and time. This reflects our commitment to Universal Instructional Design Principles as well as McMaster’s Forward with FLEXibility, which ‘aims to enhance accessibility and to equitably meet the learning needs of a diverse student body’.

Go to [https://flexforward_pressbooks.com/](https://flexforward_pressbooks.com/) to learn about the Forward with FLEXibility initiative.
2-Day Grace Period For Written MacEngaged Deliverables

• You may submit written assignments related to your MacEngaged project at a later date without needing to submit an MSAF. That is, an accommodation that allows relief from academic work due to medical or other personal issues is automatically given to all students in this course.
• Students who submit the assignment on time will receive both feedback and a grade. However, you may submit your assignment up to 2 days late (including weekends) with no late mark applied. You will still receive a grade, but there might be minimal feedback.
• This 2-day ‘grace period’ is in place to deal with any issues that may occur prior to the due date that prevented you from submitting on time (e.g. computer crashed, forgot to submit, personal situations etc.).
• If you wait to submit your assignment at the end of the grace period and you encounter an issue that prevents you from submitting within the 2 days (including weekends), there will be no additional accommodations.
• After the 2-day grace period there will be a deduction of 5% per day penalty from the actual due date (before the grace period).
• No additional accommodations are provided beyond the 2-day grace period. That is, if the assignment is submitted 2-days late and after the grace period, there will be an automatic deduction of 10% plus 5% for each additional day.

Tutorial Attendance is Mandatory

• If you miss a tutorial, please use the MSAF to document your absence.
• A 2% penalty will occur from your individual project grade for missing each tutorial, as this is important time to collaborate with your teammates and make progress on the project.

Missed Quizzes

• There are no make-up quizzes. If you miss a quiz you will receive a mark of zero for that quiz.

Missed Midterms

• If you miss a midterm, please submit the MSAF to khan_pnb@mcmaster.ca
• You are expected to complete a make-up test on the designated date. Failure to do so will result in a grade of zero for the test. Please do not request for a change in the weighting of each midterm.
• Each make-up test may be of a different format from the original test e.g. all short answer.
• The make-up test will take place outside of class time and at 6PM on a Friday.

CHECKING YOUR GRADES

Office hours with the teaching assistants (TAs) are arranged following the release of test grades. Students should check their grades on Avenue as we will use these marks to calculate the final course grade. Discrepancies must be reported to the Professor within a week of receiving the grade.
RE-MARK POLICY
The re-mark policy in this course is slightly modified and reprinted with permission from Dr. Deborah Mowshowitz from the Department of Biological Sciences at Columbia University (New York, USA).

The re-grade procedure is meant to correct serious errors in grading. It is not intended as an opportunity to argue about each judgment call made by the grader. Although it is true that TAs sometimes take off 1-2 points too many here and there, but they also give you 1-2 points too many just as often.

The re-grade policy is not intended to discourage students whose tests/assignments are graded incorrectly; rather it is an attempt to avoid frivolous requests.

Deadline: Within 1 week (unless a different date is announced in class and on Avenue), from the time that a test or assignment grade is published on Avenue.

Addition Errors: If there is an arithmetic error in adding up points, let us know immediately, and we will record the correct grade. This doesn't constitute a re-mark request.

How to Request a Re-mark?
Midterms: All tests are viewed during special review sessions. The dates & locations of the review sessions are posted on Avenue. Forms will be available upon arrival to the test review session so that students may complete them while reviewing each test. Please submit the completed form to the TAs. The instructional team will then have a meeting to make a decision on all appeals for re-grades.

Assignments: Please complete the form available on Avenue and send it to Dr. Khan via khan_pnb@mcmaster.ca There is no need to attach a copy of your assignment as it is already available online.

What Doesn't Merit a Re-grade?
"I wrote so much, and the grader didn't notice that the correct answer is buried somewhere within this long paragraph." To get full credit you must demonstrate the ability to pull out the relevant info and to exclude irrelevant info.
"I'm just 1 point away from an A, so I thought it was worth asking to find an extra point somewhere." It's not.

The Bottom Line on Re-grades
We apologize for being so hard-nosed about re-grades, but in our considerable experience, they consume an inordinate amount of effort, both yours and ours, for very little benefit. If you have a legitimate complaint, do not hesitate to submit a re-grade request. However, if you are thinking that your grade is not as good as you would like, and it would be nice to have a few more points, please do NOT send us a request. Read the paragraph on the next page instead.
**Looking to improve your marks?**
If you are working hard in this course, but feel that your grades don't reflect your work, please meet with Dr. Khan as well as the TAs on a regular basis. If you can't make Dr. Khan’s office hours, or they seem too busy, arrange an appointment for another time via [https://calendly.com/ayeshakhan](https://calendly.com/ayeshakhan)
You may be spending a lot of time on the wrong things, and redirecting your efforts may really pay off.

**Grades**
Grades obtained in PSYCH2NF3 are converted according to the scheme generally used at McMaster University, which can be viewed here: [http://registrar.mcmaster.ca/exams/grades/](http://registrar.mcmaster.ca/exams/grades/)

When the final marks are obtained, ALL borderline cases are reviewed and, where warranted, adjustments are made in the final mark. E-mails regarding requests to increase final course grades are not answered.

**Communication between Students and Faculty**
The University’s official method of correspondence with students is through a valid McMaster University e-mail account. It is the student’s responsibility to keep the @mcmaster.ca account active and check it on a regular basis. All emails from students must include your full name, student #, and course code (PSYCH2NF3).

**Student Responsibilities**
To get the most out of the course, you must be prepared to:

- complete all readings and course requirements;
- attend all class meetings;
- create a realistic study schedule;
- visit the Instructor and/or TAs during office hours for additional help. If struggling with course material, ask for help early;
- plan and manage your own time;
- check the course Avenue site, and your McMaster e-mail daily for updates; and,
- follow all university policies and guidelines, and in all ways be a responsible university member.

**McMaster University Statement on Inclusivity and Academic Integrity:** The University values integrity, inclusiveness and teamwork, and strives to support the personal and collective growth of the McMaster student community.

These values are foundational to ensuring campus environments – both in-person and virtual – are conducive to personal wellbeing and academic success.

**Inclusivity and a Culture of Respect:** As a McMaster student, you have the right to experience and the responsibility to demonstrate respectful and dignified interactions within all of our living, learning and working communities. Please review expectations as described in the Code of Student Rights & Responsibilities document (the “Code”) here: [https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/quick-link-students/](https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/quick-link-students/)
All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, whether in person or online.

It is essential that students be mindful of their interactions both in person and online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with any university functions including those on online platforms (e.g. use of Avenue to Learn, WebEx or Zoom for delivery) will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students’ access to these platforms.

Additional information about the Code and etiquette can be found here: [https://sscm.mcmaster.ca/the-code/the-codeirtual-communities/](https://sscm.mcmaster.ca/the-code/the-codeirtual-communities/)

**Inclusive Learning:** McMaster University aims to foster a supportive and inclusive learning environment that encourages both individual and collective growth. Students are invited to speak with the Instructor immediately if they encounter any challenges related to accessing or using the technological requirements expected for successful participation in this course.

**Senate Student Policies:** [http://www.mcmaster.ca/policy/Students-AcademicStudies/](http://www.mcmaster.ca/policy/Students-AcademicStudies/)

Senate Policy Statements are also available from the Senate Secretariat Office, Room 104, and Gilmour Hall.

**Academic Integrity:** [http://www.mcmaster.ca/policy/Students-AcademicStudies/AcademicIntegrity.pdf](http://www.mcmaster.ca/policy/Students-AcademicStudies/AcademicIntegrity.pdf)

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty.

The following illustrate only three of many forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained;
- improper collaboration in group work; and
- copying or using unauthorized aids in quizzes, tests and examinations

**Academic Accommodations for Students with Disabilities:** Students with disabilities who require academic accommodation much contact Student Accessibility Services (SAS) at 905-525-9140 ext. 28652 or [sas@mcmaster.ca](mailto:sas@mcmaster.ca) to make arrangements with a Program Coordinator. Please access the SAS website here: [https://sas.mcmaster.ca/](https://sas.mcmaster.ca/) Please access the McMaster University’s Academic Accommodation of Students with Disabilities policy here: [https://secretariat.mcmaster.ca/app/uploads/Academic-Accommodations-Policy.pdf](https://secretariat.mcmaster.ca/app/uploads/Academic-Accommodations-Policy.pdf)
**Plagiarism Detection:** In this course, we will be using a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. Students will be expected to submit their work electronically either directly to Turnitin.com or via an online learning platform (e.g. Avenue to Learn, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty. Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com please go to [www.mcmaster.ca/academicintegrity](http://www.mcmaster.ca/academicintegrity).

**Copyright Policy:** In this course students will have access to material that is subject to copyright laws. This includes (but is not limited to) textbooks and all resources developed by the Instructor such as lab manuals, demonstration videos, quizzes, assignments, tests, class notes and class slides. The Copyright Act and copyright law protect every original work by University instructors. Students are not allowed to share or redistribute this material in any printed or electronic form without the explicit written consent of the copyright holder. This includes posting any course material on Internet bulletin boards, course repositories, social networks, etc.

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

**Academic Accommodation for Religious, Indigenous and Spiritual Observances Form (RISO):** Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the RISO policy: [https://www.science.mcmaster.ca/associatedean/current-students/procedures-forms.html](https://www.science.mcmaster.ca/associatedean/current-students/procedures-forms.html)

Students should submit their request to their Faculty Office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests.

**The instructor and the university reserve the right to alter this outline.** The University and the instructor reserve the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g. severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, Avenue to Learn, and/or McMaster e-mail. It is the responsibility of the student to check their McMaster e-mail and their class online portal weekly during the term and to note any changes.