

Anatomy & Cell Biology

ANATCELL4452B Neurobiology of Mental Illness

Course outline for Winter 2023



Western University is committed to a **thriving campus**. We encourage you to check out the [Digital Student Experience](#) website to manage your academics and well-being. Additionally, the following link provides available resources to support students on and off campus: <https://www.uwo.ca/health/>.

Due to the ongoing and evolving COVID-19 pandemic, changes to the syllabus may be necessary if Western transitions to remote learning in 2022/2023.

1. Technical Requirements



Stable internet connection



Laptop or computer

2. Course Overview and Important Dates

**Requisites:**

Prerequisite(s): a minimum mark of 70% in one of the following: Anatomy and Cell Biology 3200A/B, Neuroscience 2000, or the former Anatomy and Cell Biology 3319.

**Senate regulation regarding the student's responsibility regarding requisites:** Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

**Course Description:** An introduction to common mental health disorders focusing on anatomical, clinical, biological, genetic and epidemiological aspects of psychiatric disorders including schizophrenia, addiction, depression, phobias, panic/anxiety, post-traumatic stress disorder, OCD, paranoia and autism.

	Delivery	Date	Time
Lecture	In Person DSB2016	Monday	10:30-12:30
Tutorial, Debate etc.	In Person MSB193A/B	Wednesday	11:30-1:30

If you need technical assistance, support is available on the [OWL Help page](#). Alternatively, you can contact the [Western Technology Services Helpdesk](#). They can also be contacted by phone at 519-661-3800 or ext. 83800.

[Google Chrome](#) or [Mozilla Firefox](#) are the preferred browsers for optimal use of OWL. Be sure you are using the latest version of the browser.

### Important Dates to Remember:

Classes Start	Reading Week	Classes End	Study day	Exam Period
January 9 <sup>th</sup>	February 18-26 <sup>th</sup>	April 10 <sup>th</sup>	April 11-12 <sup>th</sup>	April 10-30 <sup>th</sup>

\*March 7<sup>th</sup>, 2023: Last day to drop a second-term half course or a second-term full course without penalty

### 2. Instructor Information

Instructors/Teaching Assistant	Email	Contact Information
Jibran Khokhar	<a href="mailto:jibran.khokhar@schulich.uwo.ca">jibran.khokhar@schulich.uwo.ca</a>	Email or appointment.
Katherine Quesnel	<a href="mailto:kthom7@uwo.ca">kthom7@uwo.ca</a>	Email or appointment.
Walter Rushlow (Course Coordinator)	<a href="mailto:wrushlow@uwo.ca">wrushlow@uwo.ca</a>	Email or appointment.

### 3. Course Content and Schedule

The first three lectures of the course will focus on the history of biological psychiatry, the anatomical regions of the brain thought to be affected by neuropsychiatric disorders and basic neurobiology. The remainder of the lectures will focus on a wide range of common mental health conditions such as mood disorders, schizophrenia and addiction. The tutorials will provide important course information, a forum for the debates and an opportunity to ask and answer questions. Students are strongly encouraged to attend the tutorials, presentations and the debates to get the most out of the course.

Date	Topic	Instructor
Jan. 9 <sup>th</sup> Lecture	Course Introduction and History of Mental Disorders	WR, JK
Jan. 11 <sup>th</sup> Tutorial	<i>Brochure, Debate and Critique Overview</i>	KQ, WR
Jan. 16 <sup>th</sup> Lecture	Fundamentals of Neuropsychiatric Research	JK
Jan. 18 <sup>th</sup> Tutorial	<i>Brochure &amp; Debate Questions/Debate Team Breakout</i>	KQ, WR
Jan. 23 <sup>rd</sup> Lecture	Neurobiology of Mental Illness	WR
Jan. 25 <sup>th</sup> Tutorial	<i>Debate Team Breakout</i>	KQ, WR
Jan 25 <sup>th</sup> Assignment	<i>Public Information Brochure Due</i>	
Jan. 30 <sup>th</sup> Lecture	Schizophrenia (Overview and Neurobiology of Schizophrenia)	WR
Feb. 1 <sup>st</sup> Debate	<i>Debate Week 1 (Teams 1 &amp; 2)</i>	KQ, WR
Feb. 6 <sup>th</sup> Lecture	Schizophrenia (Comorbidity, Treatment and Outcomes)	WR
Feb. 8 <sup>th</sup> Debate	<i>Debate Week 2 (Teams 3 &amp; 4)</i>	KQ, WR
Feb. 13 <sup>th</sup> Lecture	Anxiety (Phobias, OCD, PTSD and Panic Disorder)	JK
Feb. 15 <sup>th</sup> Debate	<i>Debate Week 3 (Teams 5 &amp; 6)</i>	KQ, WR
Feb. 27 <sup>th</sup> Lecture	Addiction (Neurobiology of Addiction)	JK
Mar. 1 <sup>st</sup> Test	<i>Midterm Test</i>	KQ, WR

Mar. 6 <sup>th</sup> Lecture	Addiction (Psychostimulants, Alcohol, Narcotics and Cannabinoids)	JK
Mar. 8 <sup>th</sup> Presentations	Presentations Week 1	KQ, WR
Mar. 13 <sup>th</sup> Lecture	Mood Disorders (Overview and Neurobiology)	WR
Mar. 15 <sup>th</sup> Presentations	<i>Presentations Week 2</i>	KQ, WR
Mar. 20 <sup>st</sup> Lecture	Mood Disorders (Neurobiology, Treatment and Outcomes)	WR
Mar. 22 <sup>nd</sup> Presentations	<i>Presentations Week 3</i>	KQ, WR
Mar. 27 <sup>th</sup> Lecture	Autism Spectrum Disorders	WR
Mar. 29 <sup>th</sup> Presentations	<i>Presentations Week 4</i>	KQ, WR
Apr. 3 <sup>rd</sup> Lecture	<i>Dual Disorders</i>	JK
Apr. 5 <sup>th</sup> Presentations	<i>Presentations Week 5</i>	KQ, WR
Apr. 10 <sup>th</sup> Presentations	<i>Makeup Presentations</i>	KQ, WR
TBD Exam	<i>Final Exam</i>	KQ, WR

#### 4. Evaluations

Assessment	Format	Weighting	Due Date
Public Health Information Brochure <sup>1</sup>	Canva/OWL Assignment	10%	Jan. 25 <sup>th</sup> .
Debate <sup>2</sup>	PowerPoint	15%	Feb. 1 <sup>st</sup> , 8 <sup>th</sup> , and 15 <sup>th</sup> .
Midterm Test <sup>3</sup>	Essay and/or Short Answer	30%	Mar. 1 <sup>st</sup> .
Literature Critique <sup>4</sup>	PowerPoint Presentation	15%	Mar. 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> , 29 <sup>th</sup> , Apr. 5 <sup>th</sup> , and 10 <sup>th</sup> .
Final Exam <sup>3</sup>	Essay and/or Short Answer	30%	TBD

<sup>1</sup>A Public Health Information Brochure will be created **independently** by students that describes one of the common mental health conditions covered in the DSMV in layperson's terms. Each student in the class will use the free online software **Canva** to **independently** create a brochure with text and graphics. The brochures will be uploaded to **OWL Assignment** and submitted to **Turnitin**. Students are responsible for ensuring that the correct file version of the Public Information Brochure is uploaded. Incorrect submissions, including corrupt files and empty files, will receive a 0.

<sup>2</sup>Students will engage in a debate based on current clinical and/or publicly relevant mental health topics. Students will be randomly assigned to debate teams (3-6 students/team) and are expected to ensure that members of the team work together in a co-operative and professional manner to complete the assignment. In general, all members of the team will receive the same grade. However, a student might not receive the same debate grade as their group members if it is determined that the distribution of work was not equal.

<sup>3</sup>The Midterm Test and Final Exam are essay and/or short answer style questions.

<sup>4</sup>For the Literature Critique, students are expected to **independently** prepare and present to the class a summary and critical evaluation of a research paper using **PowerPoint**.

**NOTE:** Additional information concerning the test and exam, assignments, and academic integrity will be provided during the tutorial sessions as outlined in the syllabus. Lectures and tutorials are not/will not be recorded.

### **Western Grade Expectations:**

90-100	One could scarcely expect better from a student at this level
80-89	Superior work which is clearly above average
70-79	Good work, meeting all requirements, and eminently satisfactory
60-69	Competent work, meeting requirements
50-59	Fair work, minimally acceptable
below 50	Fail

### **Additional Notes:**

- After an assessment is returned, students should wait 24 hours to consider the grade before contacting their evaluator. To ensure a timely response, contact the instructor and/or teaching assistant within 7 days.
- Any grade appeals on assessments must be received within 3 weeks of the mark being posted.
- Missed or late assessments without an approved academic consideration request from academic counselling will receive a 0.
- One make-up opportunity will be offered for all assessments if an academic consideration request is received from academic counselling. Additional make-up opportunities (with an approved academic consideration request) will not be available until the next time the course is offered.

**INC (Incomplete Standing):** If a student has been approved by the Academic Counselling Office (in consultation with the instructor/department) to complete term work at a later date, an INC will be assigned. Students with INC will have their course load in subsequent terms reduced to allow them to complete outstanding course work. Students may request permission from Academic Counselling to carry a full course load for the term the incomplete course work is scheduled.

**SPC (Special examination):** If a student has been approved by the Academic Counselling Office to write a Special Examination and the final exam is the only outstanding course component, an SPC will be assigned. If the class has a makeup exam, the student is expected to write the makeup exam. If the class doesn't have a makeup exam or the student misses the makeup exam for reasons approved by the Academic Counselling Office, the student will write the exam the next time the

course is offered. Outstanding SPCs will reduce the course load for the term the exam is deferred as outlined in Types of Examinations policy

## **5. Western Academic Policies and Statements**

### **Absence from Course Commitments**

#### **A. Absence for medical illness:**

Students must familiarize themselves with the [Accommodation for Illness Policy](#).

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to Academic Counselling as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. Please note that the format of a make-up test, exam, or assignment is at the discretion of the course coordinator.

A student requiring academic consideration due to illness should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found at: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf)

#### **B. Absence for non-medical reasons:**

Student absences might also be approved for non-medical reasons such as religious holidays and compassionate situations. Please review the policy on [Accommodation for Religious Holidays](#). All non-medical requests must be processed by Academic Counselling. Not all absences will be approved; pay attention to the academic calendar and final exam period when booking any trips.

#### **C. Special Examinations**

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](#).

### **Academic Offences**

Scholastic offences are taken seriously, and students are directed [here](#) to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence.

## **Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#)

## **Correspondence Statement**

The centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).

## **Discovery Credit Statement**

Students are permitted to designate up to 1.0 Discovery Credit course (or equivalent) for pass/fail grading that can be counted toward the overall course credits required for their degree program. The details of this policy and the deadlines can be found [here](#).

## **Turnitin and other similarity review software**

All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. Students will be able to view their results before the final submission. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and [Turnitin.com](#).

## **6. BMSUE Academic Policies and Statements**

### **Cell Phone and Electronic Device Policy (for in-person tests and exams)**

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, i.e., cell phones, tablets, cameras, or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student's bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual's pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

### **Copyright and Audio/Video Recording Statement**

Tutorial sessions will not be recorded or distributed by the instructors. Students are likewise expected to refrain from recording, distributing or disrupting tutorial sessions. Lecture recordings

and notes, test, exam and assignment materials contained in this course are the copyrighted property of the course coordinators. Recording and/or distribution of course materials/lectures is not permitted without the written consent of the course coordinators. This includes posting course materials and/or modified class notes, or ANY information related to the content of course quizzes, assignments tests or exams on public (e.g., Facebook, Twitter) or pay sites such as "OneClass", "Quizlet" or any other similar website. Furthermore, sharing confidential information relating to test/exam/assignments is considered an academic offense, entailing serious consequences. Please note that we regularly monitor these sites to ensure that course material and/or confidential evaluation or assignments material has not been posted without our explicit authorization. In addition, unauthorized posting of any such course materials under an anonymous pseudonym will not prevent your identity being revealed should legal action be taken against the owners/proprietors of such web pages for copyright infringements.

### **Rounding of Marks Statement**

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. *Final grades* on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark “bumping” will be denied.

## **7. Support Services**

The following links provide information about support services at Western University.

[Academic Counselling \(Science and Basic Medical Sciences\)](#)

[Appeal Procedures](#)

[Registrarial Services](#)

[Student Development Services](#)

[Student Health Services](#)