Attention!

This is a representative syllabus.

The syllabus for the course when you enroll may be different.

Use the syllabus provided by your instructor for the most up-to-date information. Please refer to your instructor for more information for the specific requirements for a given semester.

Feel free to contact the Psychology Advising Office for any questions regarding psychology courses either by email (psychadvising@osu.edu) or phone (614.292.5750).

Thank you!
INTRODUCTION TO BIOLOGICAL PSYCHIATRY
(PSYCH 5613H )

***PDFs of Most Readings and All PPTs from Lectures are on CANVAS***

(READING LISTS WILL BE POSTED/DISTRIBUTED AT BEGINNING OF EACH TOPICAL SECTION)

TOPICAL SYLLABUS

WEEK ____________________ TOPIC TO BE DISCUSSED ____________________

I. ESSENTIAL TOPICS IN CONTEMPORARY NEUROSCIENCE

1  INTRODUCTION TO BIOLOGICAL PSYCHIATRY & ‘RDOC’

7 TOPICS IN NEUROSCIENCE THAT WE MUST UNDERSTAND BEFORE WE CAN BEGIN!  (#1) THE EROSION OF DALE’S LAW AND (#2) RECEPTOR SUBTYPES: INCREASE NEURONAL MESSAGING AT LOW COST

2  (#3) INFORMATION PROCESSING: DIFFERENT TEMPORAL AND SPATIAL SCALES; (#4) VALIDATION OF THE COMPARATIVE METHOD (THE VALUE OF ANIMAL MODELS)

3  (#5) BEHAVIORS ARE MEDIATED BY DISTRIBUTED NEURAL NETWORKS; (#6) EXAMPLES OF NEUROMODULATION OF SYNAPSES AND NETWORKS; (#7) GLIAL-NEURONAL INTERACTIONS

II. AFFECT REGULATION & MOOD DISORDERS

A. DEPRESSIVE DISORDERS
Course Objectives:
The purpose of this course is to provide a contemporary survey of our understanding of the biological bases of several significant psychopathologies.
The course will highlight four disorders- depression, anxiety disorders, post-traumatic stress disorder (PTSD), and schizophrenia. For each disorder, students will learn the diagnostic classifications, presenting symptomatology, underlying neurobiological dysfunctions, theories regarding etiology, and current and future (experimental) therapeutic strategies. As appropriate, the utility of animal models for modeling aspects of etiology and potential therapeutics in each of these disorders will also be discussed.

An important goal of this course is to train advanced students to critically read the primary literature. The required readings in this course are complex, written at a high scholarly level and will require a significant effort to process. You will have to devote sufficient time at the beginning of each week to read these articles in preparation for the discussions in class. This is a high level course and the instructor expects that all students will read the material prior to class and come prepared to discuss the readings.

An additional goal of this course is to develop critical thinking and writing skills that are vital to any post-graduate training experience. Thus, the examinations will consist of short essay questions focusing on the ability to support or refute hypotheses on the basis of the scientific literature.

**Student Evaluation:**
There will be three examinations in this course, they will each contribute 25% of the final grade. The exams will be short-essay. There will also be three quizzes, each contributing 5% of the final grade. Importantly, the quality of classroom participation will contribute significantly to your final grade (10%). Thus, class attendance and active participation is critical to your success in this course. *Rather than assuming that performance in this class will follow a theoretical normal distribution, with 90% = A, 80% = B, etc; the course grades may be curved (higher or lower) depending upon overall class performance.*

*Graduate students in the class will have an additional requirement, presentations on psychopathologies not covered in the course. These will be presented to the class during Week 14. Most likely, they will involve working in teams, reading additional articles, and developing PPTs for teaching. Each member of the team will be expected to present for the team.*

**Required Readings and Power Points:**
The goal of this course is to provide a high-level, contemporary discussion of the scientific literature, thus, each section contains several required journal articles from the primary literature (see preliminary list below). Electronic copies of all articles, not
distributed in class, along with color versions of the Power Points used during class, will be available on CANVAS (accessed through https://carmen.osu.edu/).

**Recommended Background Reading:**
Your professor will be happy to recommend (and possibly provide) a few background chapters/texts on neurophysiology, neuroanatomy and psychopharmacology.

**** ADDITIONAL IMPORTANT CLASS POLICIES ****

**Academic Misconduct:** "It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct at http://studentconduct.osu.edu"

Violations of the code in this class will be dealt with according to the procedures detailed in that code. _Specifically, any alleged cases of misconduct will be referred to the Committee on Academic Misconduct._

**Sexual Misconduct/Relationship Violence:** "Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at http://titleix.osu.edu or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu" AND BY CONTACTING YOUR PROFESSOR.

**Disability Services:** Any student who feels that she/he may need an accommodation based on the impact of a disability should contact your professor (2-1770) privately to discuss her/his specific needs. "Students with disabilities that have been certified by the Office for Disability
Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 098 Baker Hall, 113 W. 12th Avenue; telephone 292-3307, TDD 292-0901, VRS 429-1334; http://www.ods.ohio-state.edu/.