

CLINICAL NEUROSCIENCE – NSCI438 – Fall 2016

Instructor:

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Office Hours: Mon 1-3pm or by appointment

Class Meetings:

MWF 10:10-11:00am

61 McKinly Laboratory

Course Description and Objectives:

Mental illness is a complex, extremely common, and costly problem for society. Understanding the disturbances in brain structure and function associated with mental illness is crucial to developing effective treatments and interventions. This course will examine our current understanding of brain disturbances across different forms of mental illness, including depression, anxiety, schizophrenia, and addiction. We will also survey current methods used to understand the brain bases of psychopathology (e.g., neuroimaging). Students participating in this course will be able to explain the ways in which the neural mechanisms that implement the building blocks of healthy human function (e.g., emotion, attention) become disturbed and give rise to the dysfunction evident in mental illness. Students will also develop skills in identifying, critiquing, and integrating primary sources.

Course Materials:

- Textbook: Lambert KG, Kinsley CH. (2011). *Clinical Neuroscience: Psychopathology and the Brain 2nd Edition*. Oxford University Press.
- Additional readings will be posted on the course website (Sakai: <http://sakai.udel.edu/>). Assigned readings are mandatory and must be read prior to the class for which they are assigned.

Assessment and Grading:

- Your course grade will be based on a total of 400 points. No extra credit will be available.
- Material will be covered in lecture that is not in the textbook; you are responsible for knowing all material covered in class.
- Late assignments will be subject to a 10% penalty per day late.
- Any disputed grades must be brought to the instructor's attention within one week of the student receiving the grade.

Grading Scale

Letter	Percentage	Points
A	93-100	400-370
A-	90-92	358-369
B+	87-89	346-357
B	83-86	330-345
B-	80-82	318-329
C+	77-79	306-317
C	73-76	290-305
C-	70-72	278-289
D+	67-69	266-277
D	63-66	250-265
D-	60-62	238-249
F	<60	<238

Class Participation [80 points]:

- Class attendance [20 points]: Effective learning depends on your presence in class. Therefore, attendance at all classes is highly encouraged. *If you are absent, it is your responsibility to obtain notes from a classmate. I will not reteach a lecture during office hours, but am happy to clarify any points of confusion.*
- Discussion posts [20 points]:
 - Each week you will be required to post a unique discussion question to Sakai, based on that week's discussions and readings.
 - Each post must be related to that week's material and must be unique (i.e., don't repeat someone else's post).
 - Posts are due by 5:00PM each Friday (with the exception of the first week of class, the week of Nov. 4th, and the week of Thanksgiving break).
 - You may skip one week of posting. I recommend saving this skip, in case you forget to post one week.
 - Posts that earn maximum credit will demonstrate that you have read and understood the material and given further consideration beyond what has already been presented.
- Pop-quizzes [40 points]: Five pop-quizzes will be given and will not be announced beforehand. Each quiz is worth 10 points, and the lowest quiz will be dropped.

Exams [250 points]:

- Three exams will be given, including a final. The first two exams will be non-cumulative and worth 75 points each. The final exam will be cumulative and worth 100 points. Exam format includes (but is not limited to) multiple choice, short answer, and essay questions.

Writing Assignment [70 points]:

- You must write a short paper (approximately 7-8 pages, double spaced) reviewing the neuroscience research on an area of mental illness not covered in class.
- Specific detail (e.g., structure of the paper) will be distributed in a separate document during the semester.
- The paper is due on the final day of class (Friday December 9th).

Academic Integrity:

- You are expected to maintain the highest level of academic honesty.
- Academic misconduct includes, but is not limited to, copying from someone else's work, turning in someone else's work as your own, completing someone else's work for him/her, using unauthorized testing aids, failing to cite sources, and citing sources that you didn't actually use.
- All exams and quizzes are closed book, which means the use of any written/electronic material or any form of collaboration is forbidden.
- Please familiarize yourself with the University of Delaware's policy regarding the Student Code of Conduct (available at www1.udel.edu/stuguide/15-16/code.html#honesty). Anyone caught or suspected of academic misconduct will be reported.
- If you are having problems in class, please talk with me so that we can develop a plan for you to improve your performance in the course without cheating.
- Using any electronic device during an exam will result in the immediate expulsion from the exam. This includes, but is not limited to, cell phones, laptops, tablets, and mobile watches (e.g., apple watch).

E-mail:

- You are responsible for checking your UD e-mail account on a regular basis. If you choose to use another e-mail as your primary means of communication, you are responsible for forwarding your UD e-mail to that account.
- I will respond to any e-mails that you send me in a timely fashion. However, it may take me up to two business days to get back to you. Please keep this in mind, and plan accordingly. In other words, if you e-mail me the night before an exam, do not count on my responding before the exam.

Internet and Mobile Devices:

- You are expected to silence your cell phone and stow it during class. Receiving/placing calls or texts during class is disruptive and discourteous to both the instructor and classmates.
- Laptops and tablets may be used for class notes only. Please do not use laptops or tablets for any non-class related activity (e.g., checking email, Facebook, etc.) while you are in the classroom.
- Cell phones, tablets, and related devices are not to be used for recording any lecture or part of the class unless needed for disability accommodations.

Classroom Etiquette:

- I strive to establish a classroom and course website that are places where people feel comfortable expressing their thoughts without fear of unduly critical or judgmental responses. Please help me in this goal by actively listening to all members of the course and respecting diversity of perspectives and viewpoints. I expect all of my students to be respectful of the widely varied experiences and backgrounds presented by classroom members. You can expect the same level of respect from me.
- Disrespect or discrimination on any basis, including but not limited to ethnicity, sex, gender orientation, sexual orientation, physical ability, class, religion, or value system, will not be tolerated.

Consideration of Mental Health:

- The long term goal of the field of clinical neuroscience is to help those afflicted with mental health issues. Thus, respect for such individuals is paramount in this course. There will be people in class who either have a psychological disorder themselves and/or who have a friend or family member with a psychological disorder. Mental health issues are very personal for many people – please keep this in mind as you make comments or pose questions.
- To those with mental health issues and/or a friend or family member with such issues, please be aware that we may discuss material which you find uncomfortable or distressing. I will endeavor to discuss all material in a respectful way. If you feel that the material/discussion is or may become problematic for you, I strongly encourage you to speak with me. I will do my very best to find a way to make the course a comfortable learning environment for you.

Students with Disabilities:

- Any student who thinks she/he may need an accommodation based on a disability should contact me personally as soon as possible so that we can discuss how best to meet your needs. In addition, please contact the Office of Disability Support Service (DSS) office as soon as possible.
- The DSS office is located at 119 Alison Hall, Phone: 302-831-4643, www1.udel.edu/DSS
- All information and documentation of disability is strictly confidential.

Office Hours:

- You are encouraged to come see me during office hours. Please see me if you have a question about anything from the readings or lecture, to discuss study techniques for exams, or to discuss anything else related to the course or your academic career.
- If you are unable to attend my regular office hours due to a conflict, please e-mail me and we can set up another time to meet.

Medical, Mental Health, and Personal Emergencies:

- If you must miss multiple classes or assignments due to a medical or personal emergency, discuss your situation with me as soon as possible.
- The sooner that you contact me, the more assistance I will be able to give.

Useful Campus Resources:

- Career Services: http://www.udel.edu/CSC/students/students_portal.html
- Information Technologies: <http://www.it.udel.edu/>
- Center for Counseling and Student Development: <http://sites.udel.edu/counseling/>
- English Language Institute: <http://sites.udel.edu/eli/>
- Office of Academic Enrichment: <https://www1.udel.edu/AEC-workshop/resource.html>
- Writing Center: <http://www.cas.udel.edu/writing-center/Pages/default.aspx>

Class Schedule and Assignments:

- Readings must be completed before the date listed. Additional readings will be posted in advance of the classes in which they will be discussed.
- The following is a tentative schedule and is subject to change. You will be notified of any modifications that are made, and are expected to adhere to the most recent version. In case of inclement weather or other emergency, please adhere to the University's posted closing procedures.

<i>Day/Date</i>	<i>Topic</i>	<i>Assignment</i>
Wed Aug 31	Introduction to course	--
Fri Sep 2	Clinical neuroscience	Etkin (2014) and Hyman (2007) (on Sakai)
Mon Sep 5	Labor day	No classes
Wed-Fri Sep 7-9	Foundations of clinical neuroscience	<ul style="list-style-type: none">• Skim pp. 1-8• Read "Classifying Mental Disorders" (pp. 8-9)• Skim "Lessons Learned ..." (pp. 9-12)• Read pp. 12-25 (i.e., from "Exploring Various..." to "Window Provided by Culture")• Skim from "What Lies Ahead" to end of ch. 1• Read pp. 55-59
Mon Sep 12	Macroanatomy	Skim ch. 3
Wed Sep 14	Microanatomy	Skim ch. 4
Fri-Mon Sep 16-19	Neurochemistry and psychopharmacology	Ch. 5
Wed-Mon Sep 21-26	Neurodevelopment	Ch. 6
Wed-Mon Sep 28-Oct 3	Traumatic and chronic brain damage	Ch. 7
Wed Oct 5	TEST 1	--
Fri-Wed Oct 7-12	Disorders of anxiety	Ch. 8
Fri-Wed Oct 14-19	Mood disorders	Ch. 9

Fri-Wed Oct 21-26	Schizophrenia	Ch. 10
Fri-Wed Oct 28-Nov 2	Drug addiction	Ch. 11
Fri Nov 4	TEST 2	--
Mon-Fri Nov 7 -11	Stress and coping	Ch. 12, <i>E-mail me your paper topic by this Wed</i>
Mon-Fri Nov 14-18	Psychoneuroimmunology	Ch. 13
Mon-Fri Nov 21-25	Thanksgiving break	No classes
Mon-Wed Nov 28-30	Eating regulation and associated disorders	Ch. 14
Fri Dec 2	Additional topics	See Sakai
Mon Dec 5	Additional topics	See Sakai
Wed Dec 7	Additional topics	See Sakai
Fri Dec 9	Review and questions	<i>Paper due</i>
TBA	FINAL	--