

**Neuro/Psych Module: PHRD 4058-41567-01****Contact Information****Course Coordinators**

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## **I. Course Prerequisites**

Second year standing and credit or registration in 4070

## **II. Course Description**

**NEUROLOGY AND PSYCHIATRY MODULE** (5 Cr): Principles of pathophysiology, pharmacology, medicinal chemistry, clinical pharmacokinetics and pharmacotherapy (including both prescription and non-prescription medications) as they apply to neurology/psychiatric drug therapy management.

## **III. Curricular Outcomes (based on CAPE outcomes)**

- 1.1. Develop, integrate, and apply knowledge from the foundational sciences (i.e., biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and patient-centered care.
- 2.1. Patient-centered care – Provide patient-centered care as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).
- 2.2. Medication use systems management – Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.
- 2.3. Health and wellness – Design prevention, intervention, and educational strategies for individuals and communities to manage chronic disease and improve health and wellness.
- 3.1. Problem solving – Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.
- 3.3. Patient advocacy – Assure that patients' best interests are represented.
- 3.4. Interprofessional collaboration – Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.
- 3.5. Cultural sensitivity – Recognize social determinants of health to diminish disparities and inequities in access to quality care.
- 3.6. Communication – Effectively communicate verbally and nonverbally when interacting with individuals, groups, and organizations.
- 4.1. Self-awareness – Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.
- 4.4. Professionalism – Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

## **IV. Course Topics**

Neurophysiology and neuropharmacology, pain management, mood disorders, anxiety disorders, schizophrenia, Parkinson's disease, epilepsy, drug addiction and abuse, seizure disorders, headache disorders, ADHD and Alzheimer's disease.

## **V. Instructional Methods and Activities**

Instructional methods may include: traditional lectures, distance learning, in-class discussion of patient cases, small group discussions, problem-based learning, case-based learning, and individual projects or assignments.

## VI. Evaluation and Grade Assignment

- a. There will be 3 midterm exams (100 pts per exam) and a final exam (100 pts) for a total of 400 points . The final exam will not be comprehensive.
- b. Exam dates are scheduled in the course syllabus and will only be changed as per School of Pharmacy policy or in the event of University closure.
- c. Exams may be multiple choice, fill in the blank, short-answer, case or scenario based discussion, essay, or any other format deemed necessary by the lecturers and course coordinator.
- d. Normal laboratory values will be provided for all questions, unless otherwise specified during class.
- e. Lab values that are specific to a particular disease state will not be provided.
- f. Information acquired from previous lectures in the course and from other courses in the professional pharmacy curriculum may be needed in preparing for these examinations.
- g. Exams will cover material (readings, outside assignments) not covered in class.
- h. Exams will NOT be returned to the student. Review sessions may be scheduled for students to review the exam with the test question writer. Also, the test question writer may post an exam key and/or explanation of correct answers to Moodle. Format for review of test questions are to be determined by the test question writer and completed within 2 weeks of the exam date.
- i. Use of programmable calculators will not be allowed during quizzes or exams.
- j. Students wishing to review their exams with the course coordinator or with a specific lecturer must do so *within 2 weeks* of when the test scores are posted.
- k. Students wishing to challenge a question on the test must provide the course coordinator with a written statement that identifies which question(s) being challenged, why the student feels his or her answer(s) is/are correct and references from recent (published within the last 1-2 years) primary or tertiary literature to support the claim. Problems or issues with question(s) should be first directed, via e-mail, to the faculty member who presented the material. The course coordinator should be copied on this communication. In the event that the faculty member and the student cannot arrive at an acceptable conclusion, the course coordinator should be contacted regarding the issue. Discussion of a dispute will occur only after a written query is submitted. Challenges of test questions will only be considered *within 2 weeks* of when the test scores are posted.
- l. In the event that a determination is made that there is a legitimate issue with a particular test question, adjustments to scores will be made based on discussions between the test question writer and the course coordinator.
- m. Professional student mid-term grades will be posted on-line for students to view via Banner. Mid-term grades indicate a student's status at mid-semester only and do not indicate the final performance outcome of a student.
- n. "Students scoring <70% on any exam and an overall exam average <70% (excludes quizzes, assignments, bonus, etc.) will be required to submit to the coordinator written, narrative responses to select lecture objectives that will be provided within 24 hours of the posting of their exam grade to Moodle. These objectives will be in the form of a Moodle assignment and represent unit--- or lecture---level objectives to be tested upon in the next scheduled course exam.

Written responses must be submitted no later than one calendar week before the next scheduled exam. Responses must be written in complete sentences and may not be copied or pasted from any source, including class notes, treatment guidelines, textbooks, or any internet site. Submissions found to contain responses that have not been written in a student's own words will be considered a failure to submit.

In addition, students will be required to review each failed exam's ExamSoft--generated missed item report with the course coordinator or instructor responsible for each section of material. The discussion should include the student's reasoning for the incorrect answer as well as the reason for the correct answer.

In addition to answering objectives as described above and reviewing missed item reports, first professional year students scoring <70% on any exam and having an overall exam average <70% (excludes quizzes, assignments, bonus, etc.) will meet with the Director of Professional Affairs.

Failure to submit this required assignment will result in ineligibility to remediate."

## VII. Grading Scale:

89.5 – 100%	A
79.5 – 89.4%	B
69.5 – 79.4%	C
59.5 – 69.4%	D
≤ 59.4%	F

## VIII. Class Policies and Procedures

### A. Textbooks (required):

1. Chisholm-Burns M, Schwinghammer TL, Wells BG, Malone PM, Kolesar JM, DiPiro JT, eds. *Pharmacotherapy: Principles and Practice*. 2nd ed, New York, McGraw-Hill, Inc., 2010. ISBN 9780071621809
2. Basic and Clinical Pharmacology, 13<sup>th</sup> addition, McGraw Hill/Lange, B.G Katzung, S.B. Masters and A.J. Trevor eds. 2014
3. Lemke, Williams, Roche, Zito, eds. *Foyes Principles of Medicinal Chemistry* 7<sup>th</sup> ed., Walters Kluwer/Lippincott Williams & Wilkins, 2013. ISBN 978-1-60913-345-0.
4. Additional REQUIRED reading materials may be posted on Moodle by course faculty.

**B. Attendance Policy:** This course will follow the University's attendance policy which can be found at the following link

[http://catalog.ulm.edu/content.php?catoid=23&navoid=2875&hl=attendance&returnto=search#Class\\_Attendance\\_Regulations\\_Excused\\_Absences](http://catalog.ulm.edu/content.php?catoid=23&navoid=2875&hl=attendance&returnto=search#Class_Attendance_Regulations_Excused_Absences)

Professors shall accept an official University excuse. With the following exceptions professors are to determine whether absences are excused or unexcused: 1) Absences arising from authorized trips away from the University or from special duties at the University shall be excused. 2) Absences arising from a student's confinement in a hospital or other in-patient facility or doctor's excused absences shall be excused. Students are responsible for verifying this information to the faculty. 3) Absences arising from a death in the immediate family shall be excused. The immediate family is defined as spouse, child, step-child, mother, father, sister, brother, grandmother, grandfather, step-mother, step-father, step-brother, step-sister, aunt, uncle, mother-in-law or father-in-law.

**C. Make-up Policy:** Each student is expected to attend each exam at the date and time specified. If a student cannot attend an exam due to a valid University excuse, he/she must speak directly with the course coordinator, as soon as possible. The course coordinator must be notified prior to the examination, if at all possible, if a student anticipates being unable to attend the exam. Failure to attend a scheduled make-up exam will result in a zero (0) grade for that exam. Make-up exams will be prepared at the same or higher level than the original exam. The format of the make-up exam may be written or oral. *Students missing an exam due to a University approved excuse will take the make-up exam during the week of finals, or as determined by the course coordinator.*

**D. Academic Integrity:** Students must observe the ULM published policy on academic dishonesty (See page 4 in the ULM *Student Policy Manual*: <http://www.ulm.edu/studentpolicy/>). In addition, students must observe the ULM School of Pharmacy Code of Ethical and Professional Conduct (<http://www.ulm.edu/pharmacy/documents/ospa/codeofconductv82011.pdf>) and the Dress Code (<http://rxweb.ulm.edu/pharmacy/studentinfo/default.html>).

Also note, the use of programmable calculators and electronic devices capable of storing, receiving or transmitting data are prohibited during an exam or quiz unless expressly authorized by the course instructor. Such devices must be turned off and left with your belongings in the front of the room.

**E. Course Evaluation Policy:** At a minimum, students are expected to complete the on-line course evaluation as well as any evaluation administered in class by the School of Pharmacy.

**F. Student Services:** Information concerning student services in the School of Pharmacy can be found in the School of Pharmacy Student Handbook. In particular, students should pay special attention to the School's technical standards and policies concerning students with special needs (<http://www.ulm.edu/studentpolicy/studentpolicy.pdf>). ULM student services, such as Student Success Center (<http://ulm.edu/cass/>), Counseling Center (<http://ulm.edu/counselingcenter/>), and Student Health Services, is available at the following Student Services web site <http://ulm.edu/studentaffairs/>.

If you are having problems with emotional, social, and/or behavioral issues please call any of the mental health clinics on the ULM campus to make an appointment. All services are free to ULM students, staff, and faculty, and are strictly confidential.

- SOP Office of Student and Professional Affairs: 342-3800
- ULM Counseling Center: 342-5220
- Marriage and Family Therapy Clinic: 342-5678
- Community Counseling Center: 342-1263
- ULM HELPS (Helping Educators and Learners Prevent Suicide) Project Office: 342-1335

**G. Emergency Procedures:** Please review the emergency escape plan in the classrooms and hallways of the Bienville building. Move quickly in an orderly manner to the appropriate stairwell and exit the building. The meeting place for this class will be the far end of the north parking lot between Bienville and Broadmoor Blvd. Under no circumstances is the elevator to be used for emergency evacuation. Any student needing assistance should notify the professor immediately. For emergencies, to contact University Police, call **1-911** from landlines and **342-5350** from cell phones.

**The course coordinators reserve the right to adjust the syllabus or schedule, in accordance with University and School policies and procedures.**

## IX. Course Schedule PHRD 4058 Neurology/Psychology Module

Class will meet in Bienville 202 on the following days and times:

Monday 1:00-1:50pm

Tuesday 10:00-11:50am

Thursday 10:00-11:50am

### Week 1

Monday 8/21	Introduction to Neuroanatomy/Neurophysiology (Sylvester)
Tuesday 8/22	Neurotransmitters (Sylvester)
Thursday 8/24	Adrenergic/Anti-adrenergic Drugs (Jackson)

### Week 2

Monday 08/28	Cholinergic/Anticholinergic Drugs (Jackson)
Tuesday 08/29	Neuromuscular and Ganglionic Blockers (Jackson)
Thursday 08/31	Cholinergics (Jois)

### Week 3

Monday 09/04	<b>NO CLASS (Labor Day Vacation)</b>
Tuesday 09/05	Analgesics (Jois)
Thursday 09/07	Analgesics (Jois)/Analgesics (Sylvester)

### Week 4

Monday 09/11	Analgesics (Sylvester)
Tuesday 09/12	Analgesics (Sylvester)/Pain (Craft)
Thursday 09/14	<b>Exam 1 (8/21 through 9/8)</b>

### Week 5

Monday 09/18	Pain (Craft)
Tuesday 09/19	Pain (Craft)
Thursday 09/21	Anticonvulsant (Sylvester)

### Week 6

Monday 09/25	Anticonvulsant (Jois)
Tuesday 09/26	Anticonvulsant Kinetics (Gauthier-Lewis)
Thursday 09/28	Anticonvulsant (Gauthier-Lewis)

### Week 7

Monday 10/02	Introduction to Psychiatric Disorders (Nickelson)
Tuesday 10/03	<b>Exam 2 (9/12 through 9/29)</b>
Thursday 10/05	Sedatives/Hypnotics (Sylvester)

### Week 8

Monday 10/09	Sedatives/Hypnotics (Jois)
Tuesday 10/10	Anxiety/Insomnia (Nickelson)
Thursday 10/12	Bipolar Disorder (Nickelson)

***Week 9***

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Monday 10/16                      Drugs of abuse (Jois)  
Tuesday 10/17                     Drugs of abuse (Sylvester)  
Thursday 10/19                   **Fall Break**

***Week 10***

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Monday 10/23                     Drugs of abuse (Nickelson)  
Tuesday 10/24                     Drugs of abuse/ADHD (Nickelson)  
Thursday 10/26                   **EXAM 3 (10/3 through 10/18)**

***Week 11***

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Monday 10/30                     Antipsychotic (Jois)  
Tuesday 10/31                     Antipsychotic (Sylvester)  
Thursday 11/02                   Schizophrenia (Nickelson)

***Week 12***

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Monday 11/06                     Parkinson's/Movement Disorders (Jois)  
Tuesday 11/07                     Parkinson's/Movement Disorders (Sylvester)  
Thursday 11/09                   Parkinson's/Alzheimer's (Nickelson)

***Week 13***

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Monday 11/13                     Headache (Jois)  
Tuesday 11/14                     **Exam 4 (10/24 through 11/10)**  
Thursday 11/16                     Headache (Gauthier-Lewis)

***Week 14***

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Monday 11/20                     Headache (Gauthier-Lewis)  
Tuesday 11/21                     Antidepressant (Sylvester)  
Thursday 11/23                     **THANKSGIVING HOLIDAY**

***Week 15***

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Monday 11/27                     Antidepressants (Jois)  
Tuesday 11/28                     Depression (Nickelson)  
Thursday 11/30                     Depression (Nickelson)

***Final Exam Week***

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Final Exam TBA:                   **FINAL EXAM (11/14 through 12/1)**