

COURSE TITLE: PHRD 5037 Eyes/Ears/Nose/Throat/Dermatology**I. Contact Information (*Preferred mode of communication)**

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II. Course Prerequisites/Corequisites

Enrollment in the course requires completion of PHRD 4081, 5008, and 5010. (Infectious Disease, Self-Care/Patient Assessment II, and Cardiovascular integrated modules) with a grade of "C" or better.

III. Course Description

PHRD 5037. Eyes/Ears/Nose/Throat/Dermatology. 2 Cr. Principles of Pathophysiology, pharmacology, medicine chemistry, clinical pharmacokinetics, and pharmacotherapy (including both prescription and non-prescription medications as they apply to EENT and dermatologic drug therapy management.

IV. Curricular Outcomes

Domain 1 – Foundational Knowledge

- 1.1 Learner (Learner) – Develop, integrate, and apply knowledge from the foundational sciences (i.e., 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.

Domain 2 – Essentials for Practice and Care

- 2.1 Patient-centered care (Caregiver) –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.)

Domain 3 – Approach to Practice and Care

- 3.1. Problem Solving (Problem Solver) –Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.

Domain 4 – Personal and Professional Development

- 4.1. Self-awareness (Self-aware) –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 (Professional) –Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

V. Course Specific Objectives and Outcomes

At the conclusion of this course, students should be able to:

- Demonstrate knowledge of the medicinal chemistry, pharmacological mechanism of action and related pharmaceutical topics of selected medications and medication classes used to treat eye, ear, nose, throat, and dermatological disorders. (1.1)
- Recommend appropriate non-pharmacologic therapy based upon patient- and disease specific information. (1.1, 2.1, 3.1)
- Develop appropriate pharmacotherapeutic regimens based upon patient-, disease-, and drug specific information. (1.1, 2.1, 3.1)
- Develop a plan for monitoring the pharmacotherapeutic regimen for efficacy, toxicity, and adverse effects. (1.1, 2.1, 3.1)
- Develop a plan for educating patients and caregivers regarding the appropriate use, safety, and efficacy of medications. (1.1, 2.1, 3.1)
- Evaluate the appropriateness of patient-specific therapy and modify therapy as needed. (1.1, 2.1, 3.1)

VI. Course Topics

This course will address the following topics: glaucoma, macular degeneration, dry eye disease, prescription labeling for visually-impaired patients, allergic rhinitis, urticaria, allergy shots, acne, psoriasis, eczema, dermatitis, drug-induced skin reactions, and nail infections.

VII. Instructional Methods and Activities

Instructional methods may include: traditional lectures, internet-based lectures with in-class discussion, distance learning, in-class discussion of patient cases, small group discussion, problem-based learning, case-based learning, and individual projects. Quizzes or other graded in-class exercises may also be administered.

Any student earning a non-passing grade of “D” or “F” on an exam will be required to participate in mandatory tutoring sessions offered by the course instructor(s) until such a time that they obtain a passing average in the course.

VIII. Evaluation and Grade Assignment

- **There will be 3 exams (including the final exam). There will be 10 points per lecture (or 20 points per class period).**
- ExamSoft will be used to administer exams; therefore, all students are required to have access to the most current version of the software.
- Quizzes may be given, announced or unannounced, as deemed necessary by each faculty member. The points available from these quizzes and assignments will be added into the denominator for the total number of points available from the course, and the course grade determined accordingly.
- All exams will be from 10:00-11:50, given during the regularly scheduled class periods.
- Exam dates are scheduled in the course syllabus and will only be changed in the event of a University closure.
- 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 coordinators.
- Normal lab values will be provided for all questions, unless otherwise specified during class. Lab values that are specific to a particular disease state will not be provided.
- Information acquired from previous lectures in the course and from other courses in the professional pharmacy curriculum may be needed in preparing for these exams.
- Exams may cover material (readings, outside assignments) not covered in class.
- After exams have been graded and an item analysis performed, questions may be discarded or otherwise adjusted at the discretion of the Course Coordinator in consultation with the faculty before arriving at final scores.

Exam Behavior

- Only a writing instrument and calculator should be at your desk. All book bags and other bags should be left at the front of the room.
- Cell phones should be turned off and left with your belongings in the front of the room.
- The use of programmable calculators and electronic devices capable of storing, receiving, or transmitting data (including an Apple Watch, FitBit, or similar device) 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.
- Students will not be allowed to leave the room to go to the restroom during the exam, unless accompanied by a faculty member of the same gender, provided there is another proctor to remain in the room.

To Challenge a Test Question

- Problems or issues with question(s) should be first directed, via email, to the faculty member who presented the material. Please copy the course coordinator on this communication. In the event that the faculty member and the student cannot arrive at an acceptable conclusion, the course coordinator may become involved.
- Students wishing to challenge a question on the exam must provide a written (email preferred) statement that identifies the question(s) being challenged, why the student feels his or her answer(s) is/are correct and references from recent (published within last 1-2 years) primary or tertiary literature to support the claim.
- Challenges of test questions will only be considered within **2 weeks** of when test scores are posted.

<u>Assessment method</u>	<u>Points</u>
Examinations	
Exam #1	70
Exam #2	60
Exam #3	60
Assignments/quizzes	TBD

Grading Scale (based upon total number of points for semester):

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

Undergraduate 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 outcome of a student.

Early Intervention Policy:

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

IX. Class Policies and Procedures

AT A MINIMUM, ALL POLICIES STATED IN THE CURRENT ULM STUDENT POLICY MANUAL & ORGANIZATIONAL HANDBOOK SHOULD BE FOLLOWED (SEE [HTTP://WWW.ULM.EDU/STUDENTPOLICY/](http://www.ulm.edu/studentpolicy/)). ADDITIONAL CLASS POLICIES INCLUDE:

Textbook(s) and Materials:

1. Chisholm-Burns M, Schwinghammer TL, Wells BG, Malone PM, Kolesar JM, DiPiro JT, eds. Pharmacotherapy: Principles and Practice. 4th ed, New York, McGraw-Hill, Inc., 2016. (available via AccessPharmacy)
2. Brunton LL, Lazo JS, Parker KL, eds. Goodman and Gilman's, The Pharmacological Basis of Therapeutics, 13th ed, McGraw-Hill, 2017. (available via AccessPharmacy)
3. Lemke, Williams, Roche, Zito, eds. Foyes Principles of Medicinal Chemistry 7th ed., Walters Kluwer/Lippincott Williams & Wilkins, 2013. (available via LW&W Health Library collection)
4. Additional REQUIRED reading materials may be posted on Moodle by course faculty.

Attendance Policy:

Class attendance is regarded as an obligation as well as a privilege, and students are expected to know attendance regulations and to attend regularly and punctually at classes in which they are enrolled. Failure to do so: (1) may prevent access to the classroom during regularly scheduled times; (2) may jeopardize a student's scholastic standing; and (3) may lead to suspension from the College or University. Students shall submit excuses for all class absences to course coordinators within three class days after returning to classes.

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.

COP Attendance Policy:

The professional educational experience in the College of Pharmacy involves many multifaceted learning objectives, including professional interactions with faculty and peers, that do not lend themselves to traditional testing modalities and assignment of letter grades. As a result, class attendance is mandatory in all pharmacy courses. Students reported for accumulating more than three unexcused absences in a course during an academic semester will be administratively dropped from the course with a "W" grade. In accordance with College of Pharmacy policy and procedure, a grade of "W" will be counted as an "F" grade with respect to academic standards.

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 valid University excuse, he/she must speak directly with the course coordinator, as soon as possible. The course coordinator must be notified prior to an examination (if a student misses an exam).** The ULM COP Excused Absence Policy must be followed. Please refer to the official document for details.

(<http://www.ulm.edu/pharmacy/documents/ospa/excusedabsence.pdf>) In case of emergency, the course coordinator must be notified within 48 hours of the emergency. Failure to do so 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. Failure to attend a scheduled make-up exam will result in a zero (0) grade for that exam. Students missing an exam due to a University approved excuse will take the make-up exam as determined by the course coordinator.

Academic Integrity:

Faculty and students must observe the ULM published policy on Academic Dishonesty (see the ULM *Student Policy Manual* (<http://www.ulm.edu/studentpolicy/>)). All professional students will adhere to the standards set forth in the College of Pharmacy's Code of Conduct. <http://www.ulm.edu/pharmacy/documents/ospa/codeofconductv82011.pdf>

Cheating, plagiarism, or other inappropriate conduct will not be tolerated. Academic cheating includes but is not limited to the accomplishment or attempted accomplishment of the following:

1. Copying or obtaining information from another student's test paper.*
2. Using, during a test, materials not authorized by the person giving the test.**
3. Collaborating, conspiring, or cooperating during an in-class or take-home test with any other person by giving or receiving information without authority.
4. Stealing, buying, or otherwise obtaining all or part of an unadministered test.
5. Selling or giving away all or part of an unadministered test or any information concerning specific questions and items on an unadministered test.
6. Requesting, bribing, blackmailing, or in any other way causing any other person to obtain an unadministered test or information about an unadministered test or a test in the process of being administered.
7. Substituting for another student, or permitting any other person to substitute for oneself to take a test.
8. Submitting as one's own, in fulfillment of academic requirements, any work prepared totally or in part by another person.
9. Any selling, giving, or otherwise supplying to another student for use in fulfilling academic requirement any work.
10. Submitting artificially produced data or information in the place of descriptive, experimental, or survey results.
11. Any other devious means of securing an unearned grade in a non-credit course or in a course offered for credit.
12. Using, during a test, any electronic storage device, wireless and/or internet-based technology, or any other means that provides information not authorized for use during the testing period.

*A student looking on another student's paper is considered cheating.

**The presence on one's person (or in close proximity thereto) of a condensation of test information which could be regarded as a "cheat sheet" will be considered adequate evidence to establish cheating.

Plagiarism is the use of any other person's work (such work need not be copyrighted) and the unacknowledged incorporation of that work in one's own work offered for credit.

Censures (Penalties)

Academic dishonesty will result in a referral to Committee on Ethical and Professional Standards with a recommendation for a grade of "F" for the course and expulsion from the College. Academic dishonesty includes but is not limited to the use of information taken from others work or ideas, the provision of help to others on non-collaborative evaluations (tests, quizzes, etc.), collaboration on take home exams, or the use of unapproved information or electronic devices to assist in obtaining an answer to the question.

Course Evaluation Policy:

Students are expected to complete the on-line course evaluation. It is requested that they also complete the College of Pharmacy course and instructor evaluations, including providing comments. In addition, individual feedback is encouraged throughout the course.

Student Services:

Information concerning student services in the College of Pharmacy can be found in the College of Pharmacy Student Handbook. In particular, students should pay special attention to the College'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.

- COP 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

The University of Louisiana at Monroe strives to serve students with special needs through compliance with Sections 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. These laws mandate that postsecondary institutions provide equal access to programs and services for students with disabilities without creating changes to the essential elements of the curriculum. While students with special needs are expected to meet our institution's academic standards, they are given the opportunity to fulfill learner outcomes in alternative ways. Examples of accommodations may include, but are not limited to, testing accommodations (oral testing, extended time for exams), interpreters, relocation of inaccessible classrooms, permission to audiotape lectures, note-taking assistance, and course substitutions.

Title IX of the Education Amendments of 1972 prohibits sex discrimination against any participant in an educational program or activity that receives federal funds, including federal loans and grants. Furthermore, Title IX prohibits sex discrimination to include sexual misconduct, sexual violence, sexual harassment and retaliation. If you encounter unlawful sexual harassment or gender-based discrimination, please contact Student Services at 318-342-5230 or to file a complaint, visit www.ulm.edu/titleix.

Emergency Procedures:

Please review the emergency escape plan in the classrooms and hallways of the Bienville Building. Move quickly and orderly to the appropriate stairwell and exit the building. The meeting place for this class will be at the ULM College of Pharmacy sign on the lawn in the front of the Bienville building. Under no circumstances is the elevator to be used for emergency evacuation. Any student needing assistance should notify the professor immediately. 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.

X. Tentative Course Schedule

Schedule: Friday 10:00 – 11:50 AM, Room 170					
<i>The coordinators/instructors reserve the right to adjust the schedule as needed.</i>					
Date	Lecture	Topic	Instructor	Exam Points	Due
1/18/19	1	Review of physiology of the eye	Chamcheu	10	2/8/19
	2	Pharmacology of prostaglandin F ₂ - α analogs (glaucoma); vascular endothelial growth factor inhibitors (macular degeneration); cyclosporine (dry eye); review of antibacterials	Chamcheu	10	
1/25/19	3	Chemistry of β blockers, α -2 agonists, carbonic anhydrase inhibitors, parasympathomimetics, nonselective adrenergic agents (glaucoma)	R. Hill	10	2/8/19
	4	Chemistry of prostaglandin F ₂ - α analogs (glaucoma); vascular endothelial growth factor inhibitors (macular degeneration); antibacterials for bacterial conjunctivitis	R. Hill	10	
2/1/19	5	Glaucoma	Zagar	10	2/8/19
	6	Glaucoma	Zagar	10	
2/8/19	7	Macular Degeneration	Zagar	10	
		Review for Exam 1			
2/15/19	Test 1 (lectures 1-7)				
2/22/19	8	Dry Eye	Zagar	10	3/15/19
	9	Prescription Labeling for Visual Impairment	Zagar	10	
3/1/19	10	Pharmacology of mast cell stabilizers, leukotriene receptor antagonists, intranasal corticosteroids	Chamcheu	10	3/15/19
	11	Chemistry of mast cell stabilizers, leukotriene receptor antagonists, antihistamines, intranasal corticosteroids	R. Hill	10	
3/8/19	12	Allergic Rhinitis/Immunotherapy	J. Smith	10	3/15/19
	13	Bacterial Conjunctivitis	S. Hill	10	
3/15/19	14	Retinoids, biologic agents, antifungals (nail infections)	Chamcheu	10	3/15/19
		Review for Exam 2			
3/22/19	Test 2 (lectures 8-13)				
3/29/19	15	Chemistry of topical retinoids, biologic agents, antifungals (nail infections)	R. Hill	10	4/26/19
	16	Nail Infections	J. Smith	10	
4/5/19	17	Psoriasis	S. Hill	10	4/26/19
	18	Drug Induced Skin Reactions/Acne	S. Hill	10	
4/12/19	19	Eczema/Dermatitis	Jacobs	10	4/26/19
		Review for Exam 3			
4/19/19	SPRING BREAK				
4/26/19	SPRING BREAK				
5/3/19	Test 3 (lectures 14-19)				

**University of Louisiana Monroe
Quality Enhancement Plan:
FOCUS on Biology**



ULM's Quality Enhancement Plan (QEP), FOCUS on Biology, represents a multi-year commitment to its students and their future employers to engage students in active learning, help them develop critical thinking skills, and increase their success in introductory biology courses, areas critical to ULM's mission and vision.

ULM's QEP will adapt BIOL 1014 and BIOL 1020 to include a weekly FOCUS session where students engage with the material in hands-on, team-based ways to foster critical thinking and problem-solving skills that they will generalize into future classes and careers. FOCUS stands for Formulate, Observe, Communicate, Use and Synthesize, which represent the learning outcomes for these sessions.

ULM Mission

The University of Louisiana Monroe seeks students who find value in our programs and prepares them to compete, succeed, and contribute in an ever-changing global society through a transformative education.

ULM Vision

The University of Louisiana Monroe will be recognized among the top 200 universities in the nation for excellence in teaching, research, and innovation, with an emphasis on the health sciences.

FOCUS on Student Success

FOCUS on Collaboration

FOCUS on Communication

FOCUS on Critical Thinking

FOCUS on Learning

FOCUS on Biology

FOCUS on ULM