PHRD 4049 – Integrated Lab Sequence II

Contact Information:

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(318) 342-1708
awalker@ulm.edu

Office Hours:
Mondays: 9 - 11 a.m., 1 – 3 p.m.
Tuesdays: 9 - 11 a.m.
Wednesdays: 9 - 11 a.m.
Thursdays: 10 - 11 a.m.

Course Prerequisites: Completion of Integrated Lab Sequence I (PHRD 4020)

Course Co-requisites: Current enrollment (or successful completion of) the following:

- PHRD 4025
- PHRD 4027
- PHRD 4029
- PHRD 4031
- PHRD 4033
- PHRD 4035
- PHRD 4047

Course Description: Integrated Lab Sequence II (1 cr)
Second in a six-semester longitudinal course sequence reinforcing students’ knowledge, skills, and attitudes necessary for current and future pharmacy practice through a broad range of skills. Focus on Immunology, Principles of Drug Action, Pharmaceutics, Pharmacy Ethics and Laws, Drug Information Retrieval, Pathophysiology (Organ Systems), and Parenterals.

ULM School of Pharmacy
Competency Statements/Educational Outcomes

Provide Comprehensive Patient Specific Pharmaceutical Care.
1. Evaluate the appropriateness of a given prescription or medication order based on patient and disease-specific factors.
2. Evaluate each patient for self-treatment or referral.
3. Develop and implement an evidence-based care plan. (pharmacology, med chem., physiology, pathology, etc.)
4. Compound and/or dispense the most optimal formulation for drug delivery consistent with the patient needs and in harmony with the law.
5. Document all activities involved with the provision of comprehensive patient specific pharmaceutical care.
Communicate Effectively.
6. Counsel and educate patients regarding medication use, disease-state management, and health maintenance.
8. Collaborate with other healthcare professionals using appropriate effective communication in both written and oral forms.
9. Read, write, speak, listen, and use data, media, and computers to send and respond effectively to communications for varied audiences and purposes.

Identify, Interpret, and Evaluate Literature Needed for the Provision of Drug Information and Pharmaceutical Care
13. Define the question that needs to be answered.
14. Distinguish among lay, professional and scientific literature.
15. Identify appropriate literature search engines for lay, professional, and scientific literature.
16. Explain the method to construct an appropriate search strategy for various literature types.
17. Evaluate literature source validity.
18. Explain methods for systematically evaluating literature.
19. Evaluate the appropriateness of research methodologies and statistical methods.
20. Draw appropriate conclusions from research results.
21. Assess the potential impact and implication of published information on current practices.

Promote Health Improvement and Self-Care.
22. Promote/participate in effective health and disease prevention services as part of patient or population specific care.

Think Critically.
24. Identify, retrieve, understand, analyze, synthesize, and evaluate information needed to make informed, rational, and ethical decisions.
25. Solve complex problems that require an integration of one’s ideas and values within a context of scientific, social, cultural, legal, clinical, and ethical issues.
26. Display habits, attitudes, and values associated with mature critical thinking.

Demonstrate Appropriate Interpersonal, Professional, and Ethical Behaviors.
27. Maintain professional competence.
28. Represent the profession in an ethical manner.
30. Provide service to the profession and the community.
33. Accept the responsibilities embodied in the principles of pharmaceutical care.
34. Demonstrate appropriate interpersonal, intergroup, and cross-cultural behaviors that promote respect and trust from peers, patients, and community members.

Course-Specific Outcome: Demonstrate knowledge, skills, and attitudes related to first professional year course material.

Course Topics – See Tentative Teaching Schedule
Instructional Methods and Activities:
Teaching methods may include, but are not limited to: case/scenario based teaching; problem-based learning; service learning; individual and/or group exercises; self-directed learning; errors and omissions; role playing; online teaching; applied learning; point-of-care testing; projects/presentations; assignments/exercises; traditional lectures and the use of technology such as Power Point, Audience Response System, Human Patient Simulation, Distance Learning, Camtasia and Moodle.

Evaluation and Grade Assignment:
Weekly laboratory exercises and assignments will account for 80% of the final lab grade. Quizzes concerning assigned pre-lab exercises and/or reading materials may be given at any time throughout the semester and will be counted as part of the weekly lab grade. It is extremely important to prepare for weekly laboratory exercises, as they account for the majority of the total lab grade.

Professionalism will total 10% of the final lab grade. Each week, 5 points may be earned or lost. Demeanor, enthusiasm, neatness, laboratory technique will be evaluated. All points will be deducted for not wearing lab coat or for other dress code infractions, for poor condition of laboratory equipment, desk or drawer, or for poor demeanor/attitude in lab. This will be checked weekly. If benches are always clean and drawers neat and the student always wears a pharmacy jacket and conducts themselves in a professional manner, all 5 points will be earned. A dress code will be enforced in this course (see section J). No food or drink permitted by the lab stations. You may keep a bottle of water only (no other beverage – colas or coffee) by your backpacks or lunch in your lunch bag.

The faculty member(s) facilitating the lab will develop lab assignments. All lab exercises will total 80% of your final grade. The lab is based on a 10 point grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>89.5 – 100</td>
</tr>
<tr>
<td>B</td>
<td>79.5 – 89.4</td>
</tr>
<tr>
<td>C</td>
<td>69.5 – 79.4</td>
</tr>
<tr>
<td>D</td>
<td>59.5 – 69.4</td>
</tr>
<tr>
<td>F</td>
<td>≤ 59.4</td>
</tr>
</tbody>
</table>

Exercises and/or quizzes will NOT be given early. If you have an unexcused absence, missed quizzes and/or laboratory exercises cannot be made up.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Exercises</td>
<td>80%</td>
</tr>
<tr>
<td>Interprofessional Education (IPE) Course</td>
<td>10%</td>
</tr>
<tr>
<td>Professionalism</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

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 performance outcome of a student. 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.
Interprofessional Education (IPE)

Interprofessional Education (IPE) is the process by which students are trained as individuals and as teams to practice collaboratively. IPE occurs when two or more professions learn with, from, and about each other to improve collaboration and the quality of care. This semester, you will work with students from the School of Nursing and students in the Master of Occupational Therapy program through an online, Moodle-based assignment to demonstrate the following competencies:

1. Work with individuals of other professions to maintain a climate of mutual respect and shared values.

2. Use the knowledge of one’s own role and those of other professions to appropriately assess and address the healthcare needs of the patients and populations served.

This assignment will take place over an eight-week period outside of the laboratory and will contribute to 10% of your laboratory grade. Specific Instructional Methods, Activities, Evaluation, and Grade Assignment for the IPE component of this course can be found in the Moodle Course “IPE Course” to which you have been enrolled. It is your responsibility to access that Moodle course, read and successfully complete all requirements.

Student Portfolios:

Students are required to prepare, maintain, and submit a portfolio as evidence of achievement of learning outcomes. This portfolio also reflects the student’s evolving professional growth from the beginning to the completion of the Doctor of Pharmacy program.

Goals of the portfolio process:
   1. Document students’ progressive achievement of the college’s competencies throughout the curriculum and practice experiences.
   2. Document students’ self-assessment and preceptor assessments of educational outcomes.

The student’s portfolio must contain the following items (artifacts) within seven (7) days of the activity’s completion:
   1. Ethical Dilemma case(s) from ILS-II Law/Ethics Lab (ExamSoft®)
   2. Tamiflu Suspension Worksheet Assignment from ILS-II Applied Immunology Lab (ExamSoft®)

Since the portfolio will continue to be used in subsequent laboratory sequences, didactic courses, and professional practice experiences, completion of a satisfactory portfolio is a requirement to advance to the next semester. Following each required artifact submission, and at the end of each semester, reports will be generated by the Dean of
Assessment to ensure that each student has submitted the appropriate artifacts. Students who have not submitted the required artifacts will be notified of deficiencies, and will receive an incomplete grade (“I”) for this course. Per the ULM Student Policy Manual, “I” grades are removed only by completion of the course work, not by repeating the course. The deficiency must be met within two weeks following the completion of the semester. If not done so, the “I” grade is computed as an “F” grade.

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:

A. **Textbook and Materials:** A nonprogrammable calculator may be required for some class assignments; please have available at all times. Texts for all co-requisite courses.

B. **Attendance Policy:** 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 the School of Pharmacy (SOP) policy and procedure, a grade of “W” will be counted as an “F” grade with respect to academic standards. Tardiness and disruptive behavior will not be tolerated.

C. **Make Up Policy**

**EXCUSED ABSENCES POLICY**

**STUDENTS MISSING A GRADED EXERCISE**

A student missing a graded exercise (exam, quiz, in-class assignment, scheduled lab etc.) must contact the Course Coordinator via email or phone prior to the graded exercise. If a student cannot contact the Course Coordinator prior to the graded exercise, they must contact the coordinator within 24 hours of the graded exercise. It will be the sole responsibility of the Course Coordinator as to determine whether or not the student had a sufficient excuse for not contacting the Course Coordinator prior to the exam. Provided this policy is followed and a validated excuse is presented, excused absences will be granted for those reasons outlined in the University catalog and the School of Pharmacy (SOP) Student Handbook. Absences outside of those covered in the University catalog and SOP Student Handbook will be excused at the discretion of the Course Coordinator.

**STUDENTS MISSING CLASS TIME**

Students MUST notify faculty of a scheduled absence (Physician Appointment, etc.) prior to missing class. When possible, students SHOULD notify faculty of an unscheduled absence by phone or email prior to missing class. If a student cannot contact the Course Coordinator prior to class, they MUST contact the coordinator within 24 hours of class. Provided this policy is followed and a validated excuse is presented, excused absences will be granted for those reasons.
outlined in the University catalog and SOP Student Handbook. Absences outside of those covered in the University Catalog and SOP Student Handbook will be excused at the discretion of the Course Coordinator.

Students **SHOULD NOT** miss class for drug screening; however, in the rare case where a student’s class schedule does not allow sufficient time for drug screening within the pre-defined window, an excused absence will be granted by the Dean or his/her designee provided the student receives permission from the Dean’s office or the Course Coordinator to be absent prior to the absence occurring. The excused absence will be communicated in writing by the dean, or his/her designee, directly to the Course Coordinator.

**EXCUSE VALIDATION**

All excused absences shall be verified by the Office of Student and Professional Affairs. Students should bring the excuse to the Office of Student and Professional affairs before classes on the day they return to class. The Office of Student and Professional Affairs will verify the validity of the excuse and will sign and date the excuse. The student should retrieve the validated excuse on the **SAME** day it is dropped off in the office of Student and Professional Affairs. The student should provide the Course Coordinator with the validated excuse within two business days of its validation.

**CONTACTING COURSE COORDINATORS**

Contact information for all course coordinators is located in the syllabus for all courses; however, students are encouraged to pre-program their course coordinators office phone numbers into their cell phones or keep a list of course coordinator phone numbers where they are easily accessible. Students may contact the Office of the Dean (318-342-1600) or the Office of Student and Professional Affairs (318-342-3800) for assistance.

**APPEALS FOR EXCUSED ABSENCES**

In the event that a student disagrees with a Course Coordinator’s decision concerning an excused absence, they may appeal that decision using the same pathway and timelines outlined for a grade appeal (Department Head, Associate Dean for Academic Affairs, Dean, Provost). Any appeal should include a copy of the validated excuse and a letter outlining reasons the excuse should be granted based on the SOP and University guidelines for excused absences.

If the student has a University approved excuse for missing an examination or lab exercise, one opportunity will be given for make-up at the discretion of the
instructor(s). Failure to attend a scheduled make-up will result in a grade of zero (0) for that exam/exercise. Make-up labs will be prepared at a similar level of difficulty and may be given as a written exam or an oral exam in the presence of another faculty member.

D. 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 students must observe the ULM School of Pharmacy Code of Ethical and Professional Conduct (http://rxweb.ulm.edu/pharmacy/policies/copcodeofconduct.pdf)

E. Course Evaluation Policy: At minimum, students are expected to complete the on-line course evaluation as well as any evaluation administered in class by the College 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, 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. Fire Emergency Plan: 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 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.

H. Cell Phone Policy: All cell phones should be turned off during class. If a student has a need to be notified during a an emergency situation during class, he should leave the telephone number of the Office of Student and Professional Affairs,
318-342-3800, with the person who may need to contact them emergently. Cell phones are not allowed in the classroom during examinations or quizzes. Students found to be in possession of a cell phone during an examination or quiz will be considered to have committed an act of academic dishonesty and will be charged and brought before the Committee on Ethical and Professional Conduct.

I. **Use of Prior Course Materials:** Prior exams and prior quizzes are NOT permissible to possess and distribute to other students. Students who hand down prohibited course material are in violation of the policy and the Honor Code.

J. **Laboratory Dress Code:**
   a. **General Care**
      i. Good personal hygiene
      ii. Hair maintenance – neat and clean, styled off the face and out of the eyes. Hair longer than shoulder length should be secured. Hair bonnets will be worn when compounding.
      iii. Other
      Nails should be well groomed, manicured and of short to medium length to facilitate compounding activities. Tattoos must be covered by clothing. Jewelry in pierced noses, lips, tongues, or other exposed body areas, other than ears, is not permitted.

   b. **Attire**
      i. Lab coat is mandatory in all practice labs
      ii. Clean professional styled clothing and shoes.
         - Shirts with a tail or a split should be tucked in.
         - Neckties are mandatory for all gentlemen.
         - Belts should be worn with all pants that have belt loops.
         - An undershirt should be worn if undergarments are visible through clothing.
         - Skirts should be no shorter than one inch above the knee when sitting.
         - No spaghetti straps, halter tops, tube tops, showing of mid-drift, low-cut tops or organization-branded jerseys.
         - Scrub tops and bottoms are not permitted
         - Casual Friday attire is not permitted in practice labs.
         - Dress Capri pants can be worn.
         - Sandals, tennis shoes, and flip-flops are prohibited; closed toe or peep toe shoes are allowed.

   c. **Dress Code Violation**
At the discretion of the laboratory instructor, half or all of the student’s total daily lab points may be deducted for not wearing proper laboratory attire for any dress code infractions. If a student is constantly reminded to adhere to the current dress code policy, that student may be asked to leave the lab and notification will be sent to the dean of academic affairs by the lab instructor.

All policies in the ULM SOP student handbook will be followed.

<table>
<thead>
<tr>
<th>Professor</th>
<th>Office and Phone #</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baggarly, Scott</td>
<td>B261 318-342-3020</td>
<td><a href="mailto:baggarly@ulm.edu">baggarly@ulm.edu</a></td>
</tr>
<tr>
<td>Evans, Jeff</td>
<td>Shrv103 318-632-2007</td>
<td><a href="mailto:jevans@ulm.edu">jevans@ulm.edu</a></td>
</tr>
<tr>
<td>Hill, Ronald</td>
<td>B310 318-342-1706</td>
<td><a href="mailto:rhill@ulm.edu">rhill@ulm.edu</a></td>
</tr>
<tr>
<td>Jackson, Keith</td>
<td>B370 318-342-1390</td>
<td><a href="mailto:kjackson@ulm.edu">kjackson@ulm.edu</a></td>
</tr>
<tr>
<td>Kaddoumi, Amal Khalil</td>
<td>B386 318-342-1460</td>
<td><a href="mailto:kaddoumi@ulm.edu">kaddoumi@ulm.edu</a></td>
</tr>
<tr>
<td>Robertson, Courtney</td>
<td>B209 318-342-1171</td>
<td><a href="mailto:corobertson@ulm.edu">corobertson@ulm.edu</a></td>
</tr>
<tr>
<td>Sampognaro, Laurel</td>
<td>B174F 318-342-1721</td>
<td><a href="mailto:landrews@ulm.edu">landrews@ulm.edu</a></td>
</tr>
<tr>
<td>Smith, Greg</td>
<td>B130 318-342-1711</td>
<td><a href="mailto:grsmith@ulm.edu">grsmith@ulm.edu</a></td>
</tr>
<tr>
<td>Storer, Amanda</td>
<td>Shrv111 318-632-2007</td>
<td><a href="mailto:storer@ulm.edu">storer@ulm.edu</a></td>
</tr>
<tr>
<td>Tice, Hilary</td>
<td>Shrv114 318-632-2007</td>
<td><a href="mailto:tice@ulm.edu">tice@ulm.edu</a></td>
</tr>
<tr>
<td>Walker, Anthony L.</td>
<td>B217 318-342-1708</td>
<td><a href="mailto:awalker@ulm.edu">awalker@ulm.edu</a></td>
</tr>
</tbody>
</table>
ILS-II Tentative Course Schedule: Lab Classes Begin Tuesday, January 19, 2016

Labs will meet on Tuesday, Wednesday, and Thursday from 1:00 pm – 3:50 pm.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assessment</th>
<th>Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Lab, review of Pharmacy Rx program, Prefab. Prescriptions.</td>
<td></td>
<td>Walker</td>
</tr>
<tr>
<td>2</td>
<td>Pharmaceutical Compounding Lab (PBNZ)/ Drug Information Utilizing Electronic Resources/Check Techs</td>
<td></td>
<td>Walker</td>
</tr>
<tr>
<td>3</td>
<td>Pathophysiology project/ lab</td>
<td></td>
<td>Jackson</td>
</tr>
<tr>
<td>4</td>
<td><strong>Mardi Gras Holiday (2/8 – 2/10)</strong></td>
<td>*No Labs</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Compounding Lab (Sterile and Nonsterile)</td>
<td></td>
<td>Walker</td>
</tr>
<tr>
<td>6</td>
<td>Pharmaceutical Compounding Lab (Capsules)</td>
<td></td>
<td>Degennaro Walker</td>
</tr>
<tr>
<td>7</td>
<td>Parenterals Lab #1</td>
<td></td>
<td>Tice/Storer</td>
</tr>
<tr>
<td>8</td>
<td>Pharmacy Law Exercise/Counseling/Check Techs</td>
<td></td>
<td>Baggarly/Evans</td>
</tr>
<tr>
<td>9</td>
<td>Compounding Lab (carbomer gel/cream/ointment)</td>
<td></td>
<td>Nazzal Walker</td>
</tr>
<tr>
<td>10</td>
<td>Principles of Drug Action/Pharmacogenetics lab/project</td>
<td></td>
<td>Hill/Kaddoumi</td>
</tr>
<tr>
<td>11</td>
<td><strong>Spring Break/ Easter Holiday (3/25 – 4/1)</strong></td>
<td>*No Labs</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Pharmaceutical compounding (APAP Suppositories) and Drug Information combined lab (NAC Calc.)</td>
<td></td>
<td>Smith/Degenn Robertson</td>
</tr>
<tr>
<td>13</td>
<td>Parenterals Lab #2</td>
<td></td>
<td>Tice/Storer</td>
</tr>
<tr>
<td>14</td>
<td>Lollipop/Lip Balm</td>
<td></td>
<td>Nazzal Walker</td>
</tr>
<tr>
<td>15</td>
<td><strong>PCOA EXAM for P1 and P2 Students</strong> Thursday, April 28, 2016</td>
<td>*No Labs</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Applied immunology lab – Case study/Nonsterile Compounding (Tamiflu Suspension)/Drug Information</td>
<td></td>
<td>Walker</td>
</tr>
<tr>
<td>17</td>
<td><strong>Finals Week</strong></td>
<td>*No Labs</td>
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***Please note- this course Schedule is subject to change per instructor(s)***