University of Louisiana at Monroe
College of Pharmacy

PHRD 5056: Nuclear Pharmacy Elective (2 credit hours)

**Instructor:** Catherine I. Whipple, R.Ph., B.C.N.P.
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**Office Hours:** Wednesday 3:30 to 4:00 pm or by appointment

**Meeting Times/Place Class:** Wednesdays, 4:00 – 5:50 pm
Pharmacy Bienville 210

**No Required Textbook**
Information required for this course will be presented in lectures. Information sources are available from instructor.

**Catalog Description**
Prerequisites: Second year pharmacy. This course will introduce handling and storage of radioisotopes and their application to pharmacy. The official radiopharmaceuticals and non-official radiopharmaceuticals of merit employed in therapy will be considered.

**Course Overview**
This course is designed to be an overview of the field of Nuclear Pharmacy. Topics will introduce the pharmacy student to specific areas of Nuclear Pharmacy.

- Radiation physics and instrumentation
- Mathematics of radioactivity
- Radiation biology
- Radiation protection
- Radiopharmaceuticals (information and application)

**Education Outcomes (from the ULM College of Pharmacy Educational Outcomes)**

**Professional Practice-Based Outcomes**
1. E.3. Apply guidelines and standards of practice for preparation, storage, in-process quality control, and administration of sterile dosage forms and enteral nutrition products in various pharmacy settings.
   1. E.3.a. Use aseptic technique and/or sterilization methods that are appropriate for the pharmaceutical product based on established risk levels.
   1. E.3.b. Use aseptic technique to prepare sterile pharmaceutical dosage forms.
   1. E.3.d. Evaluate the physical and chemical stability of a given formulation.
   1. E.3.e. Maintain appropriate documentation.
Examinations and Grading Policies

Examinations
Two unit exams will be given (each worth 100 pts.) 200 pts.
Final exam (70% new material and 30% old material). 100 pts.
*Pop quizzes may also be given for extra credit only.
Grades will be assigned based on a percentage of Total points 300 pts.

Final Grade Assignments
Calculated percentage based on 300 total points available
A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
D = 60 – 69%
F = < 60%

Class Policies and Procedures

Attendance
Attendance is required and in accordance with University policy, role will be taken each class period. Students are responsible for all material presented in lectures and posted on the Blackboard web site.

Make-up Exams
Allowed only for excused absences as determined by the instructor and University policy. Make-up exams will not necessarily be the same format as the exam given to the class. No make-ups will be given after final exams begin.

Academic Misconduct
Cheating as defined in the ULM Student Policy Manual on page 7 entitles Cheating and Plagiarism will not be tolerated. A student caught cheating will be subject to penalties that are also defined in the ULM Student Policy Manual.

Course Evaluation
Students are expected to complete the on-line course evaluation.

FIRE EMERGENCY PLAN: Please check the emergency escape plan at the front of the classroom. Move quickly and orderly to the appropriate doorway or stairwell and exit the building. The elevator is NOT TO BE USED. Any student needing assistance with the stairs should notify the instructor.