

## ELECTIVES (1/6 – 4/28)

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Course	Course Name (Instructor)	Students	Max Enrollment	Location	Schedule
PhPr 5482	<b>Teaching Elective (Carle)</b> This is a method of teaching & presentation course that provides the knowledge and skills related to classroom teaching, clinical teaching, & public presentations. Students will learn about components of classroom teaching such as: theories of learning; competency based outcomes, goal setting & objective writing; developing lesson plans; designing assessments & evaluations; designing & presenting lessons and activities; administration basics; mentoring; and academic research in education. At the end of the course students will construct units of study that could be used in the COP Pharmacy Summer Camp; didactic course work; experiential activities; or in community presentations.	P3	10	CPH G228	Mon 8:00-9:50
PhPr 5702	<b>Personal Finance (JBaker)</b> Provides future pharmacists the informational and decision-making tools needed for planning and implementing a successful personal financial plan.	P3	80	IDW 115a/b* *On 1/11 class will meet in IDW 126	Mon 10:00-11:50
PhPr 5472	<b>PBL Therapeutics-Peds (Maples)</b> The course will use small groups that is problem-based to answer different therapeutic dilemmas occurring from infancy to adolescence. Each team will be charged with raising their child throughout the semester while encountering common pediatric problems that need therapeutic intervention.	P3	20	IDW113	Mon 3:00-4:50
PhPr 5852	<b>Spanish for Pharmacists (Lopez-Becerra)</b> This course will provide pharmacy students with essential communication skills for the delivery of quality pharmaceutical service to Limited English Proficient Latino American/Hispanic customers/patients. The topics include written and spoken Spanish, Latinos' customs and culture, federal and state regulations; ethical, political and social trends.	P1, P2, & P3	20	IDW 204	Mon 3:00-4:50
PhPr 5462	<b>Relationship Mktg Success (Hesterlee)</b> Relationships refer to "a state of connectedness between individuals". This course will provide an in-depth examination of the process of building, managing, and enhancing strong and enduring relationships. It will further explore the process by which these relationships can enhance your access to professional and personal opportunities that can be very rewarding.	P1, P2, & P3	20	IDW204	Tue 9:00-10:50
PhSc 5152	<b>Toxicology (Foster)</b> This course deals with the basic concepts of toxicology with an emphasis placed on prevention of exposure, exposure and the subsequent management of exposure of commonly found medicines, chemicals, plants and animal. Parameters that influence the toxicokinetics of these agents is emphasized.	P3	42	CPH G230	Tue 9:00-10:50
PhPr 5562	<b>Radiation Biology (MBaker)</b> Introduction to the interactions of radiation and biological systems, including chronic and delayed effects through physical and chemical changes from radiation.	P1, P2, & P3	42	CPH G232* *On 4/1 class will meet in ED2 G112a/b	T&Th 10:00-10:50
PhPr 5832	<b>Vet Pharm (Hastings)</b> Provides a working understanding of veterinary pharmaceuticals.	P1, P2, & P3	40	CPH G230* *On 4/1 class will meet in CPH G232	Thu 9:00-10:50
PhPr 5572	<b>Nuclear Instrumentation (Maune)</b> Operational principles of radiation detection equipment to include statistical application and quality control.	P1, P2, & P3	No limit	On-line	On-line
PhPr 5592	<b>Health Physics (Bellamy)</b> A review of the legal, biological and administrative aspects of radiation protection in nuclear medicine. Emphasis on practical means of minimizing radiation exposure to the patient, staff and general public.	P1, P2, & P3	No limit	On-line	On-line

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## Special Problems

Dept	#	Course Name (Course Coordinator)	Students	Credit Hours	Number Students
PhPr	533V	Special Problems in Clinical Pharmacy	P1, P2, & P3	V	
PhPr	574V	Special Problems in Pharmacy Administration	P1, P2, & P3	V	
PhSc	516V	Special Problems in Pharmacology	P1, P2, & P3	V	
PhSc	526V	Special Problems in Medicinal Chemistry	P1, P2, & P3	V	
PhSc	547V	Special Problems in Pharmaceutics	P1, P2, & P3	V	

V=variable, most electives are 1-2 credit hours.

### Special Problems Course Options

**Academic Pharmacy (Dean Gardner)** – This elective will provide the student with exposure to issues facing academic pharmacy. The student will meet frequently with the Dean and Associate Dean(s) and will assist with two to three projects during the semester that focus on issues that surface in the Dean's office. The student may assist with data collection and analysis.

**Research (Dr. Light)** – This elective will involve learning the techniques and approaches that underscore hypothesis-driven basic science research in the neurosciences. The primary focus is the damage and the mechanisms of damage produced by ethyl alcohol, or other drugs of abuse, on the development of neural structures and networks. Our primary model is the cerebellum, which in the rat, undergoes the vast majority of its neuronal development and synaptogenesis during the first three weeks after birth. These weeks are a model of human brain development during the third trimester of pregnancy. The student will learn the techniques of tissue fixation and processing for immunofluorescence detection, microscopic analysis and quantitation of neuronal development using software that permits the 3D reconstruction of neuronal elements. If the student is interested they may also participate in the handling of experimental animals and the administration of ethanol or other drugs. The process of acquiring the tissue from experimental animals is another aspect available; however, students who wish to be absent from this aspect are welcome and easily accommodated.

**Teaching (Dr. Light)** – This elective will involve the student in learning what goes into the process of teaching a course in the pharmacy curriculum. The focus will be the pharmacological aspects of the PDA course, taught in the P1 Spring semester. Aspects include the development of teaching modules using the available technology (Blackboard, SoftChalk, podcasting, etc) as well as the strategies and process of developing examination questions. If the course is taken during the Spring semester, the opportunity to serve as a teaching assistant for the PDA course is available as is the opportunity to develop and present lectures/lessons to the P1 class.

**Arkansas Pharmacy Support Group (ARPSG) (Dr. Light)** – The ARPSG is a group of pharmacists, technicians, and interns who have experienced problems with addiction disease and have entered into the group for monitoring and advocacy for the continuation of their licensure status. The student will learn about the ARPSG and its role and interaction with the Board of Pharmacy and the colleges of pharmacy in the state. In addition, the student will learn how other states provide for the same function and the Pharmacy Recovery Network structure that has developed over the past 20 years throughout the United States. Aspects of the management of information regarding participant compliance and communication with the participants utilizing web based application will be included. Additionally, the role of urine drug testing on a random basis and the identification of other indicators of possible relapse will be discussed. The student will interact with the Board of Pharmacy to assist in the research of the historical development of the ARPSG and attend Board Hearings where pharmacist advocacy is presented and resolved.

**Pharmacy Practice (Dr. Franks)** – Students enrolled in this elective will gain experience in the collection, organization, and management of health screening data useful in future community/institution practice projects and/or research projects. Dr. Franks maintains a database of information collected from COP community health screenings. The student participating in this elective will maintain the database of participant and screening information. The student will also review and revise standardized data collection instruments and procedures to improve the processes used during community health screenings. Lastly, the student will assist in the generation of reports to describe the data contained in the database as requested.

**Pharmacy Practice – Inpatient Clinical Skills (Dr. Muldrew)** – This elective will provide students with basic knowledge and hands-on experience in the area of clinical practice. The focus of this elective will be on orienting students to clinical pharmacy in an inpatient setting. This elective is designed to increase the student's understanding of the unique characteristics of the inpatient patient population, inpatient disease states and pharmacotherapy. Students will be required to work-up and present patients, perform several activities (SOAP Notes, drug information questions, adverse drug reporting etc) all in an effort to foster the development of critical thinking skills. The goal of this elective is to provide students with the skills necessary to successfully complete Direct Patient Care rotations during their 4<sup>th</sup> professional year.