

## Midwestern University, College of Pharmacy-Glendale

Class of 2013

Winter Quarter 2011-12

Monday, November 28, 2011 – Friday, February 24, 2012

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7am		Selected Exams			
8:00 - 8:50		EXAMS ↓ Cholla C or Testing Center	8:00 - 11:50 PPRA 1676 Evidence-Based Healthcare Workshop or class see syllabus	8:00-8:50 PSD 6 on dates listed in syllabus	8:30-10:00 Elective PSCI 1323 Abuse Cholla C
9:00 - 9:50	↓	EXAMS	↓	9:00-12:00 PPRA 1606 PSD 6 See syllabus for Cholla C or Mesquite Hall ↓	↓
10:00 - 10:50	PPRA 1676 Evidence-Based Healthcare Cholla C	10:00 – 11:50 PHID 1606/1607 Integrated Sequence 6/7 Cholla C	↓	↓	10:00-12:00 PPRA 1606 PSD 6 See syllabus for schedule and location
11:00-11:50	COMMON HOUR Cholla-C	Ends at 11:50	Ends at 11:50	Ends at 12:00 (may extend to 1pm on dates listed in syllabus)	
12:00-1:00	Lunch	Lunch	Lunch	Lunch	Lunch
1:10 - 2:00	1:10 – 3:00 PHID 1606/1607 Integrated Sequence 6/7 Cholla C	1:10 – 3:00 PHID 1606/1607 Integrated Sequence 6/7 Cholla C ↓	1:10 – 3:00 PHID 1606/1607 Integrated Sequence 6/7 Cholla C ↓	1:10 – 3:00 PHID 1606/1607 Integrated Sequence 6/7 Cholla C ↓	EXAMS Cholla C or Testing Center
2:10 - 3:00	↓	↓	↓	↓	EXAMS
3:10 - 4:00	3:10-4:40 Electives PPRA 1348 Financial Planning Cholla C  OR PSCI 1354 Sterile Products Pharmaceutics Lab	3:10-4:40 Electives PPRA 1417 Anticoagulation Cholla 114	3:10-4:40 Electives PPRA 1329 PDAs Computer Room OR PPRA 1416 Patient Safety Cholla 112 OR PPRA 1339 History of Rx Cholla 114	3:10-4:40 Electives PPRA 1422 Pharmacoeconomics Glendale Hall 111  OR PPRA 1346 Diabetes Agave 222	
4:10 - 5:00	Sterile Products ends at 5:10pm				

**No Classes:** Winter Holiday Recess: **Wednesday, Dec 21, 2011 – Monday, Jan 2, 2012** Martin Luther King Jr. Day: **Mon, Jan 16, 2012**

**Classes resume Tuesday, January 3, 2012**

**Note for course coordinators and students**

**There are 11 Tuesdays scheduled this quarter so Tuesday, January 3, 2012 will be treated as a Monday**

PPRA 1676 Evidence-Based Healthcare

QUIZ  
Special Session

January 3, 2012  
January 24, 2012 , 7-9am or 8-10am

PPRA 1606 PSD 6

Tuesday 1/3/12, 8-10am - SOAP Note Writing Session  
Tuesday 2/14/12 8-10am - Top 200 Drug Quiz

**Pharmacy Day at the Capital (PDAC) - January 25<sup>th</sup>**

**PPRA 1420 Immunizations TBD**

**Final Exam Schedule**

**2/20/12 – 2/24/12**

Mon 2/20

Tues 2/21  
PPRA 1676

Wed 2/22  
PHID 1607

Thurs 2/23  
PPRA 1606 Make-up

Fri 2/24

**Course Coordinators**

PHID 1606 Integrated Sequence 6 (IS6) (5.5 qhrs)  
PHID 1607 Integrated Sequence 7 (IS7) (4 qhrs)  
PPRA 1606 Professional Skills Development 6 (PSD 6) (1.5 qhrs)  
PPRA 1676 Evidenced Based Healthcare (2 qhrs)

Dr. Rowles and Dr. Cauthon  
Dr. Rowles and Dr. Cauthon  
Dr. T. Storjohann  
Dr. Haber

**Elective Coordinators**

1.5 qhrs  
 PPRA 1346 Diabetes – Dr. Akoh-Arrey  
 PPRA 1348 Financial Planning – Dr. Tennant  
 PPRA 1416 Patient Safety and Risk Management – Prof. Baker  
 PPRA 1329 PDAs – Dr. Mahrous  
 PSCI 1354 Sterile Products – Dr. Jordan  
 PPRA 1417 Anticoagulation – Dr. Karr  
 PPRA 1420 Immunizations – Professor Ridgway  
 PPRA 1422 Pharmacoeconomics – Dr. Mahrous  
 PPRA 1339 History of Pharmacy in the US – Dr. Smith  
 PSCI 1323 Substances of Abuse – Dr. Grundmann

## MWU – CPG Elective Information Sheet Class of 2013 Winter 2011-2012

CPG reserves the right to cancel classes if a minimum number of students do not register.

**PSCI 1323: Use & Abuse of Drugs (1.5 qhrs)**

Instructor: Dr. Oliver Grundmann  
 Time: Friday, 8:30am-10:00am

Maximum: NONE

Description: This course will provide an in-depth review of neuropharmacology of substances of abuse including stimulants, depressants and inhalants, medications for mental disorders, ethanol, tobacco, caffeine, dietary supplements and over-the-counter drugs, opioids, hallucinogens, marijuana, anabolic steroids and other performance enhancing drugs. In addition, an overview of drug use, drug use as a social problem, drug products and their regulations, the nervous system, the mechanism of action of drugs, preventing substance abuse and substance abuse and dependence will also be covered.

**PPRA 1339: History of Pharmacy in the United States (1.5qhrs)**

Instructor: Dr. Gary Smith  
 Time: Wednesday, 3:10-4:40pm

Maximum: 24

Description: This course is designed to introduce the pharmacy student to the history of pharmacy. This will be accomplished by focusing upon the historical development of pharmacy in the United States. By examining the growth and professionalization of the field, its statutory regulation and its product development students will be able to apply the lessons of history to current and future practice philosophies. The course will examine past and present "heroes" of the profession. Students will have the opportunity to research and prepare a brief presentation of a pharmacy historical topic. The history of pharmacy is an area that receives little attention in the pharmacy curriculum but its lessons and tradition are of great importance in recognizing and understanding the professionalism required of a pharmacist.

**PPRA 1346: Diabetes, A Patient's Perspective (1.5 qhrs)**

Instructor: Dr. Grace Akoh-Arrey  
 Time: Thursday, 3:10-4:40pm

Maximum: 40

Description: This elective will emphasize the knowledge and skills required for the delivery of diabetes education by focusing on the disease from the patient's perspective. You will learn in detail how to use glucose meters, inject insulin, calculate insulin dosing for injection and insulin pumps, adjust insulin dosing based on glucose values, count carbohydrates, and conduct foot screenings. Other topics discussed in this elective include a review of medications used to treat all aspects of diabetes, psychosocial aspects, secondary complications, and nutritional aspects of diabetes. You will be able to directly apply the things learned in this class to your rotational and professional experiences. The course will build on material presented in required courses in the curriculum by examining the barriers faced by patients during self-management and potential solutions for addressing them.

**PPRA 1348: Personal Finance for the Healthcare Professional (1.5 qhrs)**

Instructor: Dr. Shawn Tennant  
 Time: Monday, 3:10 – 4:40 pm

Maximum: NONE

Description: The objective of this course will be to provide students with the tools needed to financially succeed after graduation. They will be taught personal finance knowledge in the area of taxes, insurance, basic investing, loans and credit, debt consolidation, home purchasing, and basic money management. The course will be taught partly in lecture format, small group interactions, and case studies with no examinations. The students will be introduced to a hypothetical case in the beginning of the course and then be responsible for completing personal worksheets and developing a financial plan for themselves post graduation.

**PPRA 1329: Clinical Applications of PDA's in Health Care (1.5 qhrs)**

Instructor: Dr. Sam Mahrous

Maximum: 36

Time: Wednesday, 3:10 – 4:40 pm

Description: This course will introduce the pharmacy student to Microsoft Pocket PC database applications and mobile computing that relate to the practice of pharmacy. The course will allow students to learn concepts and techniques for the systematic creation, storage, reproduction, distribution and retention of patient records using the latest technologies in handheld computing.

**PPRA 1416: Patient Safety & Quality Assurance (1.5 qhrs)**

Instructor: Prof. Ken Baker

Maximum: NONE

Time: Wednesday, 3:10 – 4:40 PM

Description: This course is designed as an introduction to risk management and quality assurance in pharmacy and other health care settings. This course will train pharmacy students in the knowledge needed to implement, perform, and lead colleagues in establishing a risk management system. In pharmacy today, it is critical for pharmacists to understand the concept of managing risk which includes continuous quality improvement and is part of every health care professional's first duty – "first do no harm." Emphasis is placed on the history and philosophy of health care risk management; the role of the health care risk manager, the principles of health care risk management, CQI, and the connection between risk management, quality improvement and corporate compliance in various pharmacy settings. The course will examine emerging legal CQI requirements and standards that will impact pharmacy practice and quality. This course will use a number of learning techniques, including lecture, term project, peer teaching, and student presentations. Where appropriate, guest lecturers will be invited to address topics. Presentations and items discussed from guest lecturers and assigned readings will be included on assignments. The students will be expected to perform hands on use of a quality system.

**PPRA 1420 Pharmacy Based Immunization Delivery-APHA (2 credits)**

Max 75

Time: 2012

≈\$90 fee for certification

Instructor: Dr. Kelly Ridgeway

Description: Pharmacy-Based Immunization Delivery is an innovative and interactive training program that teaches pharmacists & student pharmacists the skills necessary to become a primary source for vaccine information and administration. The program teaches the basics of immunology and focuses on practice implementation and legal/regulatory issues.

**PSCI 1354 Sterile Products (1.5 qhrs)**

Instructor: Dr. Melanie Jordan

Maximum 15

Prerequisite: PSCI 542

Time: Monday, 3:10-4:40 pm (Pharmaceutics lab and lecture hall)

Description: This course covers the fundamental concepts related to the formulation, manufacture, quality assurance, and clinical preparation and administration of sterile products. Topics will include formulation of sterile dosage forms, compatibility issues with admixtures, sterility assurance and aseptic technique, packaging, unit operations such as filtration, sterilization, and lyophilization, routes of administration, and therapeutic issues including large volume injectable preparation, fluids and electrolytes, and parenteral nutrition. Information on biotechnological parenteral products and advances in parenteral technologies will also be provided. An associated laboratory session will focus on aseptic technique and familiarization with equipment used to prepare and administer parenteral medications.

**PPRA 1417: Anticoagulation in Clinical Practice (1.5 credits)**

Instructor: Dr. Samantha Karr

Maximum: 25

Time: Tuesday 3:10-4:40 pm

Description: This elective course provides students with an overview of the major topics in anticoagulation management encountered in clinical practice. Topics include prophylaxis and treatment of venous thromboembolism (VTE), anticoagulation in comorbid disease states, anticoagulation in special patient populations, and treatment plans requiring modification of anticoagulation. The course utilizes a variety of teaching methods, including focused lecture materials, case studies, required and suggested readings, and group workshops emphasizing patient interactions. Students will develop a working knowledge and skill set required to provide pharmacy-managed anticoagulation services in both the inpatient and ambulatory settings.

**PPRA 1422: Pharmacoeconomics (1.5 credits)**

Instructor: Dr. Sam Mahrous

Maximum: 30

Time: Thursday 3:10-4:40pm

Description: Pharmacoeconomics is the study of the costs and contributions of drug therapy to health care systems and society. The purpose of this course is 1) to introduce Pharmacoeconomics to pharmacy students and 2) to present a theoretical perspective on the role of pharmaceuticals in health care as well as various techniques, tools, and strategies to evaluate the economic contributions of specific drug therapies at a policy level and for individual patient needs. The course will rely heavily on review and critical analysis of existing Pharmacoeconomics Studies

**PPRA 1301(1.5 credits) or PPRA 1302 (3 qhrs): Special Project/Research****PSCI 1301 (1.5 credits) or PSCI 1302 (3 qhrs): Special Project/Research**

Instructor: Faculty Sponsor

Time: **Varies**

Description: This course provides an opportunity for students to work with individual faculty mentors on projects of variable scope. Included activities could be library and/or laboratory and/or survey-type research; assistance with syllabus development for future elective courses; or other activities agreed on between the student and mentor. All special projects/research need approval of the appropriate department chair and the Dean's Office. Please pick up a Special Project Request Form from the appropriate department office. **The Special Project Form must be completed in order to register for this elective.**