D. Institutional APPE Rotation

1. Description
The Institutional Professional Experience Rotation course comprises a four credit hour course, intended to be taken as part of the Pharmacy Practice series. A variety of public and private hospitals within and outside the state of Oklahoma are utilized as teaching/practice sites. During this rotation the student will be assigned to one of these institutions. The course is designed to expose the pharmacy student to the practical aspects of working in a hospital pharmacy, the organization of a pharmacy department and the required support services necessary for a progressive hospital. Among some of the services in which the student may participate are, centralized and/or decentralized intravenous admixtures, unit dose drug distribution, pharmacy administration, and clinical services. In addition the student may be exposed to quality control procedures, the use of support personnel, pre-packing and manufacturing, purchasing-inventory procedures, and other hospital departments.

A significant portion of this course utilizes on-the-job training since only through actual performance of these activities can a student gain an appreciation and understanding of hospital pharmacy. During the rotation each student will be placed under the supervision of an approved preceptor. This preceptor is selected by the director of pharmacy, and depending on the size of the institution, may involve rotating with a number of preceptors. The student will devote a minimum of eight hours per day working as a pharmacist, but always under the supervision and direction of a preceptor, particularly when performing dispensing functions. The student will be involved in the routine activities with the pharmacy as well as special projects assigned by the preceptor.

In addition to reporting to an assigned preceptor, each student will also report to a designated SWOSU Pharmacy Practice faculty member. During the rotation, various reading assignments and projects will be required by the faculty member. Completed projects will be submitted to the appropriate faculty member. The faculty member will visit with each student to discuss in detail the required assignments, and to assess progress on the required projects. The required projects are separate from the institutional preceptor's assignments. In other words, if your preceptor assigns a project you are required to complete it in addition to the required assignments.

2. Goals and Objectives
Overall goal: to demonstrate the provision of pharmaceutical care in the acute care setting.

Objective: Upon completion of this unit, the student will be able to: Extent and emphasis of the goals and objectives listed below will be selected by each preceptor, according to those available at the rotation site.
a. Knowledge Base
   ii. Drug and Disease State Knowledge
   iii. Demonstrate a working knowledge of disease states and medication therapies seen in the practice setting and how they apply to patient care

b. Provision of Pharmaceutical Care
   ii. Information Gathering and Identifying Patient Needs
      1) Participate in the medication delivery system including:
         a) Review orders for appropriateness
         b) Compare physician orders to the Medication Administration Record (MAR) and reconcile any differences between the orders and the MAR
         c) List the steps necessary to clarify a questionable order
      2) List the responsibilities of the pharmacist in the management of medical emergencies at the institution
   iii. Assessment and Interpretation of Information
      1) Utilize a medication record system to detect:
         a) A patient’s history of adverse effects
         b) Potential unwarranted medication changes
         c) Potential quantitative misuse of medications
         d) Duplication of medications
         e) Inappropriate dose, route, schedule, or dosage form
         f) Possible adverse effects
         g) Drug-drug and drug-food interactions
         h) Drug-disease interactions
         i) Possible irrational therapeutics
   iv. Therapeutic Plan Development
      1) Demonstrate the application of pharmacokinetic principles to patient care
   v. Therapeutic Plan Monitoring
      1) Establish patient outcome parameters and monitoring those parameters

c. Practice Management
   ii. Pharmacy Operations
      1) Describe controlled substance laws and the institution’s procedure for dispensing controlled substances
      2) Describe the hospital’s procedure for dealing with outpatient prescriptions
      3) Identify the procedure for the handling of ‘meds from home’ and drug samples
      4) Describe any pharacoeconomic issues currently, or anticipated, in the institution
      5) Discuss the application of satellite pharmacy services, drug information centers, and clinical services to institutional practice
      6) Describe the specialty areas of pharmacy:
         a) Identify the nature of the specialty practice
         b) Identify the workings of the specialty practice

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7) Describe the following as applicable:
   a) Satellite pharmacies
   b) Outpatient services
   c) Drug information services
   d) Investigational drug services
   e) Special clinical services

8) Demonstrate an understanding of the technology used in the practice of pharmacy including but not limited to order entry, dispensing and distributing medications, electronic health records, inventory control, quality assurance and drug information.

9) Describe and/or attend pharmacy related hospital committee meetings and describe the purpose, function and line of responsibility of each, including the Pharmacy and Therapeutics and Quality Assurance committees.

10) Describe the lines of communication and shared responsibilities of other health related areas that interact with the pharmacy department.

11) Identify the role and activities of pharmacy technicians.

12) Trace the inventory control activities including ordering, checking, stocking, and maintenance of physical inventory.

13) Discuss procedures involved in ordering controlled substances.

14) Discuss the procedure for the handling of manufacturer recalls of medications.

15) Identify the organizational structure of the pharmacy department.

d. Medication Use Systems
   i. Medication Use Evaluation
      1) Participate in and/or describe the Drug Use Evaluation (DUE) or Medication Use Evaluation (MUE) process taking place in the institution.
      2) Describe the institution’s policies and procedures for handling investigational drugs.
      3) Identify the procedure for reporting and documenting medication errors and adverse drug reactions.
      4) Describe the institution’s formulary system.
      5) Describe the difference between therapeutic and generic equivalence and how this affects the formulary.
      6) Become familiar with the Policies and Procedures of the Hospital and discuss standards and guidelines of the Joint Commission on Accreditation of Healthcare Organizations.
      7) Describe the procedure for handling of non-formulary or non-stocked drug requests.

e. Pharmaceutical Dispensing
   i. Dispensing and Compounding
      1) Interpret medication and IV admixture requests, determine their accuracy, completeness and legality, and prepare an appropriate label for the medication according to the institution’s guidelines.
      2) Participate in medication delivery by:
         a) accurately filling unit dose orders
         b) accurately filling bulk medication orders including selecting the appropriate container.
c) demonstrating proper aseptic technique and the ability to prepare extemporaneous admixture solutions
d) checking for common IV incompatibilities and utilizing reference sources for information concerning parenteral drug and solution administration, stability, and compatibility

3) Demonstrate the ability to accurately perform pharmacy calculations
4) Describe and participate in the proper storage, preparation, and dispensing of medications at the site
5) Demonstrate the use of auxiliary labeling to aid the nurse in administering medications and intravenous admixtures
6) Participate in the manufacturing and or repackaging of a pharmaceutical product including tracing the controls and records that should be used to insure the quality of the finished product
7) Utilize appropriate reference materials to satisfy drug information needs to properly dispense medications

f. Public Health
   i. Health Promotion and Disease Prevention
      1) Identify patient-specific opportunities to promote health and wellness, including both drug and non-drug approaches
      2) Provide accurate and appropriate education to patients regarding health and wellness.
      3) Discuss health and policy initiatives that affect public health and disease prevention for large population groups

g. Professional Communication
   i. Patient Counseling and Drug Information Skills
      1) Demonstrate proper communication skills both oral and written by:
         a) Taking patient medication history
         b) Providing patient counseling
   ii. Communication Skills
      2) Demonstrate ability to present information in a written format that is accurate, complete, concise, and well-organized, such as in documenting information related to patient cases and preparing articles for publication.
      3) Utilize appropriate and effective verbal and non-verbal communication skills in order to accomplish goals, including skills related to actively listening and probing for questions and misunderstandings

h. Professionalism and Accountability
   i. Professional Behavior
      1) Show Professional behavior by:
         a) Managing time wisely
         b) Accepting responsibility
         c) Exhibiting Self-motivation
         d) Completing tasks thoroughly
         e) Showing respect for others
         f) Inviting feedback
         g) Using verbal and written evaluations to improve performance
ii. Social and Ethical Awareness
   2) Exhibit understanding of the pharmacist’s code of ethics and ability to apply it to the practice of pharmacy
   3) Recognize and respect patients’ socioeconomic, religious, cultural, and moral concerns and values, and express empathy as appropriate to the situation.

3. Daily Activities
   Each student will be required to participate in various activities within the site to which they are assigned. Activities will vary from site to site and the services, which the institution offers. Upon completion of this course the student should have participated in the activities listed in the Behavioral Objectives for that site. The extent of these activities, of course, is determined by the availability at the site and the constraint of time.

4. Required Projects
   Each student will be required to do projects during the rotation. Each of these must be completed by the deadline set by the preceptor and/or the SWOSU Pharmacy Practice faculty. Each report will be typed and presented or discussed with the SWOSU faculty member. The time devoted to projects should not detract from the learning experience, therefore, the projects should be prepared after assigned activities are completed or in the evenings. Projects may be selected from the list, which the preceptor and/or faculty member has for the rotation. If you have any questions regarding the projects, contact the preceptor or faculty member. Please contact the faculty member and inform them of planned project before beginning any assignment.
   Example projects are available by request from your SWOSU faculty member. Additional assignments may be given to you by your faculty member or by your preceptor.

5. Grading and Examination
   An examination covering the required readings, their objectives, and the course content will be given. The final grade will be assigned based on evaluations in the following areas:
   1. Projects: 20 points
   2. Final Examination: 30 points
   3. Preceptor Evaluation: 50 points