

## D. Institutional APPE Rotation

### 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 COP 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.

### Goals and Objectives

Overall goal: to demonstrate the provision of pharmaceutical care in the acute care setting.

Extent and emphasis of the goals and objectives listed below will be selected by each preceptor, according to those available at the rotation site.

## I. Patient Care

To give the student the opportunity to provide patient care by:

1. Demonstrating proper communication skills both oral and written by:
  - Taking patient medication histories.
  - Providing patient counseling.
  - Accurately provide drug information to other health professionals.
2. Utilizing a medication record system to detect:
  - A patient's history of adverse effects.
  - Potential unwarranted medication changes.
  - Potential quantitative misuse of medications.
  - Duplication of medications.
  - Potential unwanted additive effects of medications.
  - Inappropriate dose, route, schedule, or dosage form.
  - Possible adverse effects.
  - Drug-drug and drug-food interactions.
  - Drug-disease interactions
  - Possible irrational therapeutics.
3. Demonstrating the application of pharmacokinetic principles to patient care.
4. Establishing patient outcome parameters and monitor those parameters

## II. Drug Preparation and Distribution

The student will have a working knowledge of the drug preparation and distribution systems of the institution and be able to:

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. Describe controlled substance laws and the institution's procedure for dispensing controlled substances.
3. Participate in the institutions medication delivery system including,
  - Reviewing orders for appropriateness against the patient profile making additions to, and deletions from this record, and understanding the steps necessary to clarify a questionable order.
  - Accurately filling unit dose orders.
  - Accurately filling bulk medication orders including selecting the appropriate container.
  - Demonstrating proper aseptic technique and the ability to prepare extemporaneous admixture solutions.
  - Checking for common IV incompatibilities and utilizing reference sources for information concerning parenteral drug and solution administration, stability, and compatibility.
4. Demonstrate the ability to accurately perform pharmacy calculations. (Examples: IV admixtures, drip rates, and extemporaneously compounded products.)
5. Describe the hospital's procedure for dealing with outpatient prescriptions.
6. Demonstrate the use of auxiliary labeling to aid the nurse in administering medications and intravenous admixtures.

7. 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.
8. Discuss the application of satellite pharmacy services, drug information centers, and clinical services to institutional practice.

### III. Pharmacy Management and Administration

Provide the student with an overview of the administrative responsibilities involved in operating a hospital pharmacy department by:

1. Describing and/or attending pharmacy related hospital committee meetings and describing the purpose, function, and line of responsibility of each. Especially the Pharmacy and Therapeutics and Quality Assurance committees.
2. Describing the lines of communication and shared responsibilities of other health related areas that interact with the pharmacy department.
3. Becoming familiar with the Policies and Procedures of the Hospital and discuss standards and guidelines of the Joint Commission on Accreditation of Healthcare Organizations.
4. Identifying the role and activities of pharmacy technicians.
5. Identifying the organizational structure of the pharmacy department.

### IV. Drug Policy Management

Involve the student in different drug management policies in hospital pharmacy by having the student describe the Pharmacy and Therapeutics role and functions including:

1. Participating in and/or describing the Drug Use Evaluation process taking place in the institution.
2. Describing the institution's policies and procedures for handling investigational drugs.
3. Identifying the procedure for reporting and documenting medication errors and adverse drug reactions.
4. Identifying the procedure for the handling of "meds from home" and drug samples.
5. Describing the institution's formulary system.
6. Describing the difference between therapeutic and generic equivalence and how this affects the formulary.
7. Describing any pharmacoeconomic issues currently, or anticipated, in the institution.

### V. Purchasing and Inventory

To provide the student with an overview of purchasing and inventory and their impact upon general operations in areas such as budgeting, bookkeeping procedures, pricing policy, and application of computer systems.

1. Trace the inventory control activities including ordering, checking, stocking, and maintenance of physical inventory.
2. Discuss procedures involved in ordering controlled substances.
3. Discuss the procedure for the handling of manufacturer recalls of medications.
4. Describe the procedure for handling of non-formulary or non-stocked drug requests.

## VI. Specialty Practice Functions

The student shall be able to describe the specialty areas of the pharmacy, if applicable, in sufficient detail to identify the nature of the and workings of the specialty practice. (Examples satellite pharmacies, outpatient services, drug information services, investigational drug services, and special clinical services.)

### 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.

### 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 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 projects 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.

### 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:

- Projects: 20 points
- [Preceptor Evaluation](#): 50 points
- Final Examination: 30 points
- Total Points: 100 points

Other projects may be undertaken with permission from your faculty instructor and preceptor.