

# **Doctor of Pharmacy Program Clerkship Syllabus**

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Introductory Pharmacy Practice and Advanced  
Pharmacy Practice Experiences

**COMPILED BY:**  
**EXPERIENTIAL PROGRAM AND DEVELOPMENT COMMITTEE AND THE**  
**FACULTY OF THE DEPARTMENT OF PHARMACY PRACTICE AND**  
**ADMINISTRATION**

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***Please note the following:***

*\*The preceptor reserves the right to change/add clerkship objectives at his/her discretion and as circumstances may dictate.*

*\*\*All ethical, legal, and HIPAA / PHI-related regulations must be observed at all times, during and after the conclusion of the rotation. Caution must be exercised when accessing, retrieving, transcribing, copying, and / or printing information contained within the medical record. **Inappropriate use of the medical record and/or breeches of patient confidentiality may result in dismissal from the rotation or other disciplinary action.** Professional conduct must be maintained at all times throughout the rotation and respect for and compliance with HIPAA / PHI regulations are mandatory. All materials prepared for inclusion into one's portfolio **MUST** be HIPAA / PHI compliant.*

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## **Introductory Pharmacy Practice Experience (COMMUNITY)**

*Students must at a minimum achieve the basic competencies listed below. Some students, with pharmacy work experience especially, may be able to achieve the intermediate level competencies at this time and may be involved in more advanced skills at the discretion of the preceptor.*

### **Basic Competencies:**

1. The student will become familiar with basic layout and arrangement of pharmacy.
2. The student will understand the entire prescription processing procedure. The student will select, count, label and package prescriptions under the supervision of the preceptor. The student may observe these activities at first, but should become competent in performing them by the end of the experience.
3. The student will be able to interpret patient instructions and provide appropriate directions for use and cautions to the patient.
4. The student will develop basic compounding techniques (if this activity occurs at their site during their experience), including use of a prescription balance, compounding equipment, appropriate packaging and labeling.
5. The student will be exposed to all aspects of drug inventory, ordering, storage, security, and control procedures.
6. The student will be able to explain the various roles of pharmacy personnel, including the responsibilities of the pharmacist (both staff and pharmacist-in-charge).
7. The student will be exposed to pricing, marketing, insurance, licensing, and personnel management issues.
8. The student will become familiar with the drug information resources available (and required by the State Board of Pharmacy) at the site and will be able to use them appropriately to complete assignments from the preceptor or to assist the preceptor in researching/answering drug information inquiries.
9. The student will display a professional attitude, adhere to all legal and ethical standards, and exhibit a caring attitude towards patients.
10. The student will assist and observe the preceptor provide counseling to patients regarding prescription and non-prescription products.
11. The student will observe the preceptor's communication with various healthcare professionals and be able to model these behaviors during role play.

### **Required Skills/Activities:**

- Observe prescription processing and be able to process prescriptions under preceptor supervision (should be able to process prescriptions from start to finish by week 2). Student should document in their log a minimum of one example of a prescription processed per day (drug, dose, directions for use, instructions/warnings/auxiliary labels, brief summary of what counseling should be provided to the patient).
- Receiving and pricing orders for drugs and other supplies.
- Stocking drugs and supplies.
- Checking and recording inventory. Should be able to locate where various

- products are stored.
- Student should record a job description of the various pharmacy personnel and the workflow for the pharmacy.
  - Retrieve and file patient and drug records. Student should be proficient in pulling hard copies of prescriptions, filling prescriptions (including appropriate handling of controlled drug substance prescriptions), and accessing the patient profile.
  - Student should be able to discuss all forms related to narcotic drugs and special requirements of CDS prescriptions (limits, filing, etc).
  - Prepackaging, unit dose packaging (if applicable).
  - Distributing drugs to patients, including observing counseling of patients. Student should record one example each of a counseling session they participated/observed while on site for prescription and non-prescription medications.
  - Student should record a list of references available on site and record in their log one example of a drug information question of each type below assigned to them by the preceptor.
  - Basic level drug information questions:
    - Drug interactions between two or more medications
    - Can a medication be crushed?
    - What is the dose of a medication for a specific indication?
    - What are the special handling or storage concerns with a particular medication?
  - Additional drug information projects may be assigned at the discretion of the preceptor.

## **Introductory Pharmacy Practice Experience (INSTITUTIONAL/HOSPITAL)**

*Students must at a minimum complete the competencies listed below. Some students, with pharmacy work experience especially, may be able to achieve some advanced level competencies at this time and may be involved in more advanced skills at the discretion of the preceptor.*

### **Competencies**

1. The student will understand and be able to verbally relate the following information regarding medications they process as prescriptions/medication orders:
  - a. Therapeutic class and MOA
  - b. Trade and generic name
  - c. Sizes and strengths available
  - d. Recommended dose/duration of therapy
  - e. Indications/contraindications
  - f. Adverse reactions, side effects, signs of toxicity
  - g. Monitoring parameters (for therapeutic and toxic outcomes)
  - h. Drug interactions
  - i. Instructions for patients
2. Student will process prescriptions/medication orders in a professional, ethical, and legal manner from the point of presentation by the patient until the finished product is dispensed. This includes the following:
  - a. Reading, evaluating and interpreting prescriptions (including determining if dose and frequency are correct).
  - b. Determining compliance with state and federal laws and (if applicable), hospital policies. Students will be proficient in how state and federal laws affect pharmacy practice and be able to actively apply this knowledge.
  - c. Identifying legitimacy of the prescription (i.e. forged or incomplete prescriptions should be recognized) and observe the preceptor in effective management of this situation.
  - d. Patient profile review for drug duplication, contraindication, drug interactions, drug allergy, early refills, and identify potential resolutions (i.e. how to address) to the problem(s).
  - e. Student will be able to demonstrate appropriate documentation activities for communications with doctors, processing of CDS prescriptions, and communications regarding problems with prescriptions after observing these activities by the preceptor(s).
3. On institutional/hospital Intermediate Pharmacy Practice Experiences:
  - a. Students will become familiar with medication order processing from point of physician order (written or computer entry) to administration by the nurse.
  - b. Student will be able to demonstrate appropriate sterile technique for preparation of IV products (either through actual preparation of these products or through mock preparation of products).
  - c. Student will be able to discuss any automation utilized in prescription

- processing, preparation, dispensing or administration.
- d. Student will be able to discuss the role of pharmacists within the hospital, including participation in hospital committees if possible.

***Required Skills/Activities:***

- Sterile product formulation and compounding.
- Compounding prescriptions and bulk compounding.
- Select drug products according to state and federal laws (in the case of hospital practice, be familiar with issues related to formulary and policies of the hospital).
- Complete processing and dispensing prescriptions under preceptor supervision.
- Recording patient profile entries (either through observation or active participation).
- Provide drug information under supervision and with assistance of preceptor
- Research higher level drug information questions, requiring use of more than one reference or searching of primary literature: student will be assigned two in-depth drug information questions by the preceptor on each experience. Students should record their responses in their log.

***Advanced Competencies***

Some students prior to the Advanced Pharmacy Practice Experiences may achieve these competencies; however, students must demonstrate proficiency in these areas on their APPE Rotations.

1. Student will be able to obtain a drug/health history in an appropriate, complete and courteous manner.
2. The student will be able to effectively counsel patients on drug therapy.
  - a. Advise on: drug indication, dosing (number of tablets/capsules or volume of liquid preparations), frequency, special instructions, side effects, duration of use, and pertinent drug interactions (including spacing of medication doses to avoid drug interactions, if appropriate).
  - b. Recommendations and selection of nonprescription products appropriate for the patient's symptoms or nutritional needs. Discussion of potential adverse effects, appropriate dose and duration of use, potential drug-disease state or drug-drug interactions/contraindications, and need for physician referral (when appropriate).
3. The student will develop skills to resolve problems related to patient compliance (under utilization of medication) or overuse/misuse/abuse.
4. The student will be able to advise the patient in selection of medical and surgical supplies. (if applicable)
5. The student will be able to provide drug information presentations to the hospital pharmacy staff.
6. The student will be able to participate actively in health screenings, community education or outreach activities, and other public health initiatives.
7. The student will be able to participate actively in data/information collection for medication usage evaluations, preparation of drug monographs for formulary decisions, development of educational publications (newsletters, etc), and advanced drug information questions.

## **Advanced Pharmacy Practice Experience Program (CARDIOLOGY)**

### **Objectives**

1. Identify, evaluate, and communicate to the patient and other health care professionals the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, dosage forms, routes of administration, and delivery systems
2. Identify and report medication errors and adverse drug reactions
3. Manage drug regimens through monitoring and assessing patient information
4. Retrieve, evaluate, manage, and use clinical and scientific publications in the decision-making process
5. Apply physical exam, diagnostic, laboratory, and radiological findings when creating a pharmaceutical care plan for patients using SOAP format.
6. Facilitate at least one topic discussion for the preceptor and fellow pharmacy students.



## **Advanced Pharmacy Practice Experience (COMMUNITY)**

### Goals

1. To gain a greater appreciation for the complexity of community pharmacy practice.
2. To develop practical clinical skills that will enable the student to enhance the quality of life of patients and advance pharmaceutical care in the community setting.
3. To provide experiences in order to enhance communications skills when dealing with patients and with other healthcare providers.
4. To foster life-long learning via a self-directed educational process.

By the end of the rotation the student should be able to:

1. Effectively use the pharmacy's prescription filling software to fill prescriptions, check for drug interactions, retrieve patient profiles and retrieve drug information.
2. Effectively fill prescriptions utilizing the pharmacy's workflow, including automation devices (if applicable).
3. Effectively perform a final verification of the prescription to ensure appropriateness of drug selected, dosage and strength; accuracy of transcription from hardcopy prescription to patient label, appropriateness of auxiliary labels, and that the patient has no contraindications or drug-drug, drug-disease interactions with the new medication.
4. Effectively troubleshoot problems with third-party payers and resolve these issues to the satisfaction of the preceptor and the patient.
5. Explain the method of inventory control used by the pharmacy staff and wholesalers that are used to ensure "in stock inventory".
6. Demonstrate the proper usage of the commonly used blood glucose meters and train patients how to use them properly.
7. Demonstrate the proper usage of all available asthma inhalation devices and train patients how to use them properly.
8. Explain the proper usage of OTC products and explain to patients how to use them properly.
9. Correlate OTC brand name products to their generic ingredients.
10. Effectively interview a patient to pinpoint their symptoms and then recommend an OTC product to treat their symptoms. a. Recognize when a patient's problem warrants a physician referral b. Effectively counsel a patient on their prescription and herbal/alternative medications
11. Explain to patients the proper method for drawing and injecting insulin and other injectable medications.
12. Effectively perform a DUR on a patient's profile to determine drug-drug, drug-disease interactions, contraindications, overlapping side effects, nonadherence to drug therapy, appropriate therapeutic regimens for disease states present, appropriate frequency of dosing and strength of a medication.
13. Collaborate with physicians and other health care providers to provide recommendations to drug therapy to enhance quality of care and the patients

quality of life.

14. Categorize patients into their appropriate hypertensive stage and recommend appropriate therapy based upon JNC-VII.
15. Organize, advertise and successfully execute a “brown-bag” program or blood pressure screening.
16. Organize, advertise and successfully execute a disease awareness program with educational brochures and screenings when appropriate.
17. Interpret and compound prescriptions that would be considered “pharmaceutically elegant”.
18. Explain the schedules of control substances, storage requirements and dispensing and inventory procedures.

## **Advanced Pharmacy Practice Experience Program (CRITICAL CARE)**

### **Goals:**

1. To be an active member of the multidisciplinary team involved in the management of the critically ill patient.
2. To become familiar with the etiology, pathophysiology, and treatment (drug and non-drug) of disease states commonly found in the intensive care unit (ICU).
3. To understand the alterations in pharmacokinetics/pharmacodynamics that effect drug therapy in the ICU and to apply this understanding to the bedside care of ICU patients.
4. To develop thought processes necessary to promote a rational and systematic approach for identifying, evaluating, and resolving patient-specific drug-related problems.
5. To enhance teaching and presentation skills by leading formal and informal lectures.
6. To gain proficiency in evaluating the medical literature as it pertains to patient specific cases.
7. To demonstrate empathy in the care of the critically ill patient.

### **Objectives**

Upon completion of this rotation and its associated activities, the student should be able to:

1. Extract pertinent patient information from the appropriate source (e.g., medical record, health care team, computerized record, patient, etc.)
2. Develop a systematic and logical approach to monitoring a patient's drug therapy and clinical course, including, but not limited to addressing the issues of appropriateness of therapy, individualization of drug therapy, drug interactions, adverse drug reactions, and monitoring parameters.
3. Demonstrate an understanding for the principles and application of drug therapy as it relates to the pharmacological management of the critically ill patient.
4. Demonstrate knowledge of the pathophysiology, pharmacotherapy, monitoring, and complications of the various disease states commonly seen within the ICU patient population.
5. State the desired goals/outcomes (endpoints) for each identified patient problem (i.e., disease processes, laboratory abnormalities, symptoms, physical findings, etc.)
6. State the subjective and objective criteria used to monitor therapy. Assess the patient for the therapeutic and toxic effects of treatment (drug and non-drug).
7. State therapeutic alternatives for each patient problem.
8. Demonstrate skill in providing pertinent drug information and therapeutic suggestions to physicians, nurses, and other health care providers involved in direct care of the patient.
9. Demonstrate competence in adverse drug event reporting.

## **Advanced Pharmacy Practice Experience Program (EMERGENCY MEDICINE)**

### **Goals and Objectives:**

This acute care rotation will help train the student:

1. To become more familiar with all aspects of disease states that lead to Emergency Department admissions through direct patient contact and by becoming an active member of the health care team.
2. To improve skills in patient data interpretation to promote pharmaceutical care, optimize drug therapy, identify drug related problems, and develop reasonable drug therapy recommendations.
3. To improve communication skills with patients and other health care providers.
4. To sharpen skills in effectively retrieving, analyzing, and applying the medical literature.
5. To improve presentation skills by presenting formal and informal patient cases, journal clubs, and lectures.
6. To participate in 1 paramedic ride-along (if available) in order to both enhance triage skills as well as understanding of pre-hospital care.
7. To increase awareness of the lay public, as well as the entire health care team, of the role of the clinical pharmacist in the Emergency Department in providing patient care and education.
8. To demonstrate familiarity with the following topics. Optimally, familiarity with all of these topics occurs through patient-specific interventions. Specific topics may or may not be present during any given rotation. This will be accounted for during evaluations.
  - a. Acute coronary syndrome
  - b. Adverse drug reaction assessment
  - c. Alcohol withdrawal
  - d. Arrhythmias
  - e. Asthma
  - f. Brain attacks
  - g. Cardiopulmonary arrest
  - h. CHF
  - i. Diabetes & diabetic ketoacidosis
  - j. Fluid and electrolytes
  - k. Geriatric and pediatric dosing
  - l. Hypertension/ Hypertensive urgencies & emergencies
  - m. Pain management
  - n. Pneumonia
  - o. Poison and overdose
  - p. Pulmonary embolism
  - q. Rapid sequence intubation
  - r. Sedation
  - s. Shock/Trauma
  - t. SIRS/Sepsis
  - u. Sickle cell disease

- v. Thrombolysis
  - w. Urinary tract infections/urosepsis
9. To present and discuss patients in an organized problem list fashion during daily discussions with the preceptor.
  10. To provide patient education.
  11. To extract pertinent patient information from the appropriate source (e.g., medical record, health care team, computerized record, patient, etc.)

## **Advanced Pharmacy Practice Experience Program (FAMILY MEDICINE)**

### **Goals and Objectives:**

The goals and objectives of the experience in the Family Medicine Acute Care Clerkship are to provide the pharmacy student with a good grounding in the database and skills of family medicine as well as internal medicine. It is expected that the pharmacy student will become familiar with appropriate pharmacotherapeutic management of diseases and conditions commonly encountered in family medicine.

1. Function as an active contributor to patient care in a multidisciplinary patient management team.
2. Describe the symptomatology, physical findings, pathophysiology, diagnostic procedures, laboratory tests, primary and alternative pharmacotherapies, and non-pharmacological treatments or disease states encountered during the rotation.
3. Develop and critique treatment plans for the most common clinical problems encountered in general adult medicine.
4. Identify drug-induced diseases and recommend alternative treatment strategies. Any iatrogenic drug effects will be reported via the medical center adverse event tracking system.
5. Counsel patients on the appropriate administration of medications, recognition of adverse drug effects, and the importance of follow-up.
6. Provide in-services for physicians, nurses, and/or pharmacy staff.
7. Complete a seminar presentation, case presentation, and a formal journal club presentation during the course of the rotation.
8. Respond to drug information requests.

## **Advanced Pharmacy Practice Experience Program (INSTITUTIONAL/HOSPITAL)**

During the first few days of the rotation, the student should be oriented to the institution/hospital, the pharmacy, and pertinent policies and procedures. During the remainder of the five week rotation, it is expected that the student will be exposed to all the important aspects of contemporary hospital pharmacy practice by working with and under the direction of a registered pharmacist preceptor and other pharmacy personnel.

The preceptor should evaluate the student's past experience in the area of hospital pharmacy and establish goals for the rotation which complement and build on the student's experience and future plans. Some of the general areas outlined in the objectives follow:

1. **Drug Distribution:** Receiving and interpreting orders for completeness, accuracy, legal requirements, patient safety, and incompatibilities.
2. **Consultation with Health Care Providers:** Exercising judgment concerning the information conveyed, verifying the authenticity or clarifying the medication order, answering questions, locating possible interventions using the patient profile and communicating concerns in a tactful manner.
3. **Preparation of the Drug Order:** Selecting the correct product and dosage form, complying with the institution's formulary, generic or therapeutic substitution policies, and other procedures, correctly preparing any extemporaneously compounded product, correctly packaging, labeling and dispensing the preparation.
4. **Preparation of IV Admixtures:** Interpreting orders and checking for accuracy, legality, safety and incompatibilities, correctly preparing various forms of admixtures, properly packaging, labeling and dispensing the preparation.
5. **Monitoring Utilization:** Inspection of drug storage, administration, and documentation of orders in patient care areas, interpreting medication histories, patient records, medication profiles, and other records to insure the patient is receiving the appropriate therapy. Participation in regular quality assurance procedure including drug utilization evaluation studies.
6. **Managerial Procedures and Committees:** Gaining an appreciation of pharmacy policies and basic managerial philosophies, understanding the functions, responsibilities, and composition of the P&T Committee and other multidisciplinary committees within the institution.
7. **Drug Information:** Interacting with pharmacists and other providers in an appropriate and professional manner, becoming familiar and proficient in the use of information sources and participating, if possible, in inservice or other educational programs for pharmacists or other health professionals.

At the end of the experience, the preceptor will complete the evaluation document provided. The student will also complete an evaluation of the rotation to provide feedback to the pharmacist preceptor and documentation for the School.

## **Advanced Pharmacy Practice Experience Program (INFECTIOUS DISEASE)**

### **Goals and Objectives:**

The rotation is intended to familiarize the student with patient management of their infectious diseases and internal medicine pharmacotherapy. The majority of the student's time is spent following assigned patients, participating in all patient care rounds and providing therapeutic drug information consultations to the medical team.

To successfully complete the rotation, the student must:

1. Monitor patients – The student shall be responsible for monitoring drug therapy for the assigned intensive care patients. The student will be expected to provide daily updates on patient drug therapy as reflected in the patient's clinical status, physical exam and lab values. The student will be responsible for monitoring patients for appropriate dosing of medications (including renal dysfunction adjustments), therapeutic drug monitoring, and appropriate antibiotic selection based on culture and sensitivity results. The student will be in attendance at daily rounds and for other team meetings as applicable.
2. Maintain a written patient monitoring form on each assigned patient. These will be updated on a daily basis to reflect changes in patient's status, particularly as related to drug therapy. The student will be expected to independently analyze each patient's drug therapy and seek out references to assist in his/her knowledge of the applied therapeutic situation whenever necessary.
3. The student will attend and participate in the following:
  - **Patient Discussion Sessions** – Each student is expected to actively participate in patient discussion sessions with the preceptor on a routine basis.
  - **Case Presentations** – Each student will present a 20-minute PowerPoint case presentation including patient case information and a pertinent patient-specific drug therapy topic. The preceptor must approve the case and topic selected by the student. Accompanying handout is optional for presentation.
  - **Topic Discussions** – Each student will present a topic pertaining to infectious diseases. The preceptor must approve topics selected by the student. Try to once a week
  - **Journal Club Presentation** – Each student will independently select an article for review. The article should be recent and based on a topic pertinent to infectious diseases. Accompanying handout (approximately 1 – 2 pages) required for presentation.
  - Students are to attend conferences (i.e. Grand Rounds and Noon Conference) depending on preceptor's preference.
  - The student will assist in the institution's effort to monitor adverse drug reactions (ADRs) and medication variances by collecting pertinent patient data on a standardized form and discussing each patient case with the preceptor.



## **Advanced Pharmacy Practice Experience Program (INTERNAL MEDICINE)**

### **Goals:**

The general goals of this acute care rotation are:

1. To become familiar with the etiology, pathophysiology, and treatment (drug and non-drug) of disease states commonly found in the adult internal medicine patient.
2. To develop skills in evaluating patient data for the following purposes: promoting pharmaceutical care and optimal drug therapy, identifying drug-therapy related problems, and developing rational drug therapy recommendations.
3. To develop a basic understanding of the various diagnostic and monitoring techniques utilized in internal medicine patients.
4. To build confidence in one's ability to communicate effectively with patients and health care providers regarding disease states and pharmacotherapy.
5. To develop/enhance teaching skills by presenting formal and informal cases, inservices, and lectures.
6. To develop an understanding of the role of a clinical pharmacist in patient care and understand the value of becoming an integral member of the health care team.
7. To gain experience independently and appropriately retrieving, analyzing, and applying the medical literature.

### **Performance Objectives:**

Upon completion of this rotation and its associated activities, the student should be able to:

1. Extract pertinent patient information from the appropriate source (e.g., medical record, health care team, computerized record, patient, etc.)
2. Develop a systematic and logical approach to monitoring patients' drug therapy and clinical course, including, but not limited to addressing the issues of appropriateness of therapy, individualization of drug therapy, drug interactions, adverse drug reactions, and monitoring parameters.
3. Construct and maintain an adequate database, including a problem list, for each patient.
4. Demonstrate knowledge of the pathophysiology, pharmacotherapy, monitoring, and complications of the various disease states commonly encountered within the adult internal medicine population.
5. State the desired goals/outcomes (or endpoints) for each identified patient problem (i.e., disease processes, laboratory abnormalities, signs/symptoms, physical findings, etc.)
6. State the subjective and objective criteria used to monitor therapy; and assess the patient for the therapeutic effects of treatment (drug and non-drug) and any iatrogenic problems.
7. State therapeutic alternatives for each patient problem.

8. Demonstrate skill in providing pertinent drug information and therapeutic suggestions to physicians, nurses, and other health care providers involved in direct care of the patient.
9. Demonstrate competence in documenting one's activities (i.e., maintaining a record of recommendations/interventions).
10. Demonstrate competence in adverse drug event reporting (internally and/or externally), if applicable.

## **Advanced Pharmacy Practice Experience Program (ONCOLOGY)**

The student will practice as a member of a multidisciplinary healthcare team. The student will attend rounds with their team and provide pharmaceutical care for their team's patients. Students will also attend medical conferences with their team as indicated by the preceptor.

### **Goals and Objectives**

1. Work-up and present each patient, including chief complaint, past medical history, pertinent social/family history, review of systems, etc. Students must be able to appropriately SOAP each patient.
2. Be able to discuss in depth each patient's disease state (including appropriate drug therapy, potential alternative therapies, etc.), current labs, clinical status, and the patient's current pharmacological therapy. Students should be able to discuss not only their patient's cancer, but also any concurrent illnesses that require monitoring or drug therapy.
3. Identify, evaluate, and communicate to the patient and other health care professionals the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, dosage forms, routes of administration, and delivery systems. To achieve this goal the student must develop an increased understanding of the management of oncology patients and the special considerations associated with their care.
4. Apply pharmacotherapeutic principles to clinical situations and make rational, patient-specific drug therapy recommendations, including the appropriateness of medication dosing based on practical pharmacokinetic principles.
5. Monitor and interpret lab results, as indicated by the patient's disease state and antineoplastic/pharmacologic therapy.
6. Be able to critically evaluate the appropriateness of each patient's pharmacological therapy and recommend appropriate changes to optimize therapy.
7. Be able to provide recommendations for appropriate supportive care measures for each patient's chemotherapy regimen (e.g., antiemetics, pre-medications, hydration, etc). To achieve this goal the student must increase their understanding of the fundamentals of cancer chemotherapy and the management of complications.
8. Be able to recommend changes in their patients' analgesic regimens to optimize pain control.
9. Provide accurate and timely responses to drug information requests, including inservices to staff or written educational materials to the team as indicated.
10. Provide accurate, effective medication counseling to patients and obtain a thorough medication history from patients.
11. Discuss the pharmacological treatment of a variety of neoplastic and hematologic disease states (as dictated by the topics discussed while on rotation).
12. Identify and report medication errors and adverse drug reactions that occur in their patients.

13. As indicated, be able to recommend prescription and nonprescription medications, dietary supplements, nutrition, traditional non-drug therapies, and complementary and alternative therapies.
14. As indicated, be able to consult with patients regarding self-care products.

## **Advanced Pharmacy Practice Experience Program (PEDIATRICS)**

The student will practice as a member of a multidisciplinary healthcare team. The student will attend rounds with their team each morning and will provide pharmaceutical care for their team's patients. Students will also attend medical conferences with their team. Students will develop a basic understanding of disease states and conditions commonly seen in the pediatric and neonatal patient. Emphasis will be placed on the therapeutic management of pediatric patients and the unique pharmacological/pharmaceutical requirements of these patients. The role of the clinical pharmacist in the selection and monitoring of drug use in pediatric patients will be stressed.

### **Goals**

1. To work with a multi-disciplinary team in an area of pediatric medicine and develop the necessary skills to become a valued team member.
2. To become familiar with the etiology, pathophysiology, and treatment (drug and non-drug) of disease states commonly found in the pediatric and neonatal patient.
3. To be familiar with current range of doses for commonly used medications in the pediatric population in order to evaluate for appropriateness and practicality.
4. To develop thought processes necessary to promote a rational and systematic approach for identifying, evaluating, and resolving patient-specific drug-related problems.
5. To develop the communication skills (verbal and written) and confidence necessary to effectively interact with members of the multi-disciplinary team, pharmacists, other health-care providers, as well as patients and their families.
6. To develop a basic understanding of the various diagnostic and monitoring techniques utilized in pediatric and neonatal patients.
7. To develop/enhance teaching skills by presenting formal and informal lectures.
8. To gain experience independently retrieving, analyzing, and applying the medical literature.

### **Performance Objectives**

Upon completion of this rotation and its associated activities, the student should be able to:

1. Extract pertinent patient information from the appropriate source (e.g., medical record, medical team, computerized record, patient, etc.). *Please note: under no circumstances is any part of the medical record to be photocopied or removed from the nursing unit, Medical Records Dept., or hospital. Inappropriate use of the medical record and/or breeches of patient confidentiality may result in dismissal from the rotation.* In addition, professional conduct must be maintained throughout the rotation.
2. Develop a systematic and logical approach to monitoring patients' drug therapy and clinical course, including, but not limited to addressing the issues of appropriateness of therapy, individualization of drug therapy, drug interactions, adverse drug reactions, and monitoring parameters.

3. Demonstrate an understanding for the principles and application of drug therapy as it relates to pediatrics and regards to pharmacokinetics, nutrition, individualized dosing, and special considerations for the pediatric and neonatal patient.
4. Demonstrate knowledge of the pathophysiology, pharmacotherapy, monitoring, and complications of the various disease states commonly seen within the pediatric and neonatal population.
5. State the desired goals/outcomes (endpoints) for each identified patient problem (i.e., disease processes, laboratory abnormalities, symptoms, physical findings, etc.).
6. State the subjective and objective criteria used to monitor therapy. Assess the patient for the therapeutic and toxic effects of treatment (drug and non-drug).
7. State therapeutic alternatives for each patient problem.
8. Demonstrate skill in providing pertinent drug information and therapeutic suggestions to physicians, nurses, and other health care providers involved in direct care of the patient.
9. Demonstrate competence in adverse drug event reporting.

## **Advanced Pharmacy Practice Experience Program (PSYCHIATRY)**

### **Objectives**

Following completion of the rotation, the student should be able to:

1. Demonstrate an understanding of the pathophysiology and pharmacotherapy of the disease states common to this patient population. Topics include Mental Status Examination (MSE), Depression, Schizophrenia, Extrapyrarnidal Symptoms and Bipolar Disorder.
2. Demonstrate an understanding of appropriate choice of psychotropic drug therapy and be able to design an appropriate drug regimen and monitor therapy for toxicities and complications.
3. Critically evaluate the pertinent literature and provide concise and relevant drug information to other members of the health care team.
4. Demonstrate skills in performing and documenting a patient medication history through effective Mental Status Evaluation (MSE).
5. Develop a working relationship with the health-care team, including physicians, nurses, social workers, occupational therapists etc., in a professional and independent capacity.
6. Complete assigned presentations (i.e. daily oral patient case presentations, journal club, patient case, and seminar).

### **Responsibilities**

1. Participate in daily physician work rounds. Team may include one attending, pharmacist, nurses, social workers, and occupational/recreational therapists.
2. Review medication profiles and laboratory data daily, relaying pertinent information regarding appropriateness of orders, dosing, duplicate therapy, drug interactions, policy discrepancies, etc., to the primary team and pharmacy personnel. Patient-specific care plans based on problem lists should be formulated for each patient followed.
3. Serve as a drug information source for the primary team, thoroughly and promptly answering questions posed.
4. It is expected that all required daily activities are completed prior to leaving the hospital and that equal time will be devoted outside patient care to reading and preparing for topic discussions with preceptors.
5. All patients and their drug therapy will be reviewed by the student and preceptor on a daily basis after morning work rounds. The student will be expected to provide demographics, problem list, and pharmacotherapy for each patient, including pertinent laboratory values and monitoring issues. The student should be prepared to talk about the basic mechanisms of action, dosing, and administration issues. Significant recommendations and interventions regarding drug therapy will be agreed upon between the student and the preceptor and then discussed with the treatment team.
6. Core topic discussion sessions will be scheduled at the beginning of the rotation. Elective topics will be agreed upon in advance between the student and the preceptor. It is expected that the student will have read all assigned articles prior to the session.

**Resources**

1. American Psychiatric Association Guidelines
2. Expert Consensus Guideline Series
3. Texas Implementation of Medication Algorithms
4. It is expected that student will conduct primary literature searches as needed for drug information issues.



## **Advanced Pharmacy Practice Experience (AMBULATORY CARE COMMUNITY)**

### **Goals and Objectives**

1. Interview a patient and/or caregiver to obtain complete medical and medication history (allergies, over the counter, prescription, vitamins and herbals) for a specific patient.
2. Perform physical examination as warranted (i.e. blood pressure, respiratory rate, heart rate)
3. Establish a collaborative relationship with other care providers including physicians, nurses, pharmacy residents, and clinical pharmacist preceptors.
4. Discuss the pathophysiology and pharmacotherapy of disease states commonly encountered in ambulatory care settings, including hypertension, hyperlipidemia, diabetes mellitus, asthma, COPD, pain, osteoporosis, smoking cessation strategies, and preventive health strategies among other diseases/conditions.
5. Expand knowledge base on commonly encountered disease states and their management by reading multiple sources including primary, secondary and tertiary literature.
6. Assess drug therapy regimens for inappropriate indications, untreated conditions, inappropriate dosing, adverse effects, drug-drug interactions, adherence issues, payment concerns, discrepancies, and monitoring.
7. Develop a pharmacotherapy care plan with modifications in drug, dose, regimen, life style modifications, and follow up monitoring to resolve identified drug related issues and achieve desired therapeutic goals.
8. Identify monitoring parameters for therapeutic efficacy and adverse events in a specific patient.
9. Develop a therapeutic plan for monitoring drug therapy.
10. Document a note in the medical record for patient interactions where applicable. This should include any subjective information obtained from the chart and/or patient, pertinent laboratory parameters, medication histories, drug therapy assessments and recommendations, all of which should be written utilizing the SOAP format.
11. Demonstrate effective communication skills for interviewing and counseling patients.
12. Counsel patients on appropriate use of over the counter and prescription medications including but not limited to dosing/administration, common adverse effects, drug-drug-interactions, goals of therapy, and monitoring.
13. Communicate appropriately to drug information inquires from patients and other health care providers.
14. Identify and report medication errors and adverse drug reactions according to the site-specific procedures.
15. Deliver oral and/or written presentations as required by the preceptor.
16. Document patient care activities according to procedures at rotation site.

## **Advanced Pharmacy Practice Experience (AMBULATORY CARE COMPOUNDING)**

### **Objectives:**

1. Identify various compounding references available for different age groups (i.e. pediatrics versus geriatrics)
2. Expertise in consistently compounding various dosage formulations including capsules, suppositories, and suspensions
3. Utilize the most appropriate reference to assist pharmacists in compounding
4. Experience the role of a Compounding Pharmacy Practice setting which also includes objectives listed in the AMBULATORY CARE COMMUNITY clerkship

**Advanced Pharmacy Practice Experience**  
**(AMBULATORY CARE GENERAL MEDICINE)**

**Objectives:**

1. Extract pertinent information from the medical record and construct a database for each assigned patient.
2. Describe and explain the pathophysiology of various disease states and associated complications.
3. Discuss the potential for the clinical relevance of drug-induced disease, symptoms and physical findings drug interference with laboratory tests, drug-drug interactions, and drug-food interactions.
4. State the therapeutic goal (endpoints) for each patient problem (i.e. disease process, abnormal laboratory values, symptoms, and/or physical findings).
5. State therapeutic alternatives for each patient problem.
6. Evaluate and select the most appropriate therapeutic regimen for each problem in the individual patient based on a knowledge of:
  - The clinical efficacy of each alternative
  - The pharmacology and pharmacokinetics of the drug
  - The side effects and toxicities of the drug
  - The potential complications with other disease processes
  - The patient variables (i.e. sex, age, etc.)
7. Write and speak more effectively.
8. Demonstrate skill in providing pertinent drug information and therapeutic suggestions to the physicians and nurses involved in the direct care of patients.

## **Advanced Pharmacy Practice Experience (AMBULATORY CARE HIV CLINIC)**

### **Objectives**

1. Review medical records, chart notes and relevant laboratories with physician
2. Review the CD4 count, viral load
3. Review patient's medication list for drug interactions
4. Provide optimal patient specific antiretroviral therapy according to genotype and phenotype
5. Provide counseling on antiretroviral therapy, importance of adherence, and regimen specific side effects

**Advanced Pharmacy Practice Experience**  
**(AMBULATORY CARE INDIAN HEALTH SERVICES)**

**Goals and Objectives:**

1. To develop skills and clinical experience in a rural outpatient primary care setting by caring for acute and chronic illnesses in patients across the spectrum of age and development.
2. To acquire a cross-cultural understanding of Navajo patients, and experience how the IHS model interacts with traditional Navajo values and beliefs in clinical practice.
3. To learn about the interaction between primary care medicine and public health in a community where patients have multiple barriers to care (lack of transportation, telephones, running water and/or electricity).
4. To assist in the evaluation and management of medically complicated patients in a community with limited local resources.
5. To consider the management of complicated medical problems in a hospital with limited on-site access to specialty care services.
6. To expand one's knowledge of common problems in primary care and apply a biopsychosocial model to patient care.

## **Advanced Pharmacy Practice Experience (AMBULATORY CARE NEUROLOGY)**

### **Objectives:**

1. Write SOAP notes about patients seen in clinic that demonstrates understanding of the patient's condition.
2. Obtain patient history in an effective way so that decreases time the physician needs to spend in the clinic visit.
3. Summarize and analyze a journal article in a way that the team can make a clinical judgment about treatment.
4. Complete a written or community service project that demonstrates communication skills.
5. Demonstrate knowledge in various neurology topics, but especially epilepsy, Parkinson's disease, sleep disorders, and dementia

## **Advanced Pharmacy Practice Experience (AMBULATORY CARE PSYCHIATRY)**

### **Objectives:**

1. Write SOAP notes about patients seen in clinic that demonstrates understanding of the patient's condition.
2. Obtain patient history in an effective way so that decreases time the physician needs to spend in the clinic visit.
3. Summarize and analyze a journal article in a way that the team can make a clinical judgment about treatment.
4. Complete a written or community service project that demonstrates communication skills.
5. Demonstrate knowledge in various psychiatry topics

**Advanced Pharmacy Practice Experience**  
**(AMBULATORY CARE VETERINARY COMPOUNDING)**

**Objectives**

1. Prepare and dispense compounded medications for veterinary patients
2. Provide patient education to veterinary patient owners
3. List relevant state and federal laws as they pertain to compounding prescriptions
4. Demonstrate preparation of the following types of compounded products: tablet, suspension, cream/ointment, transdermal gel, and flavored chewables.



**Advanced Pharmacy Practice Experience**  
**(HEALTH SYSTEM HOSPITAL ADMINISTRATION)**

**Objectives**

1. Provide a background hospital administration in an integrated health system
2. Assist various pharmacy administrators and work in collaboration with managers or assistant directors of pharmacy operations and Director of Pharmacy
3. Attend meetings and conferences related to pharmacy patient care services, medication use, medication safety, and informatics
4. Work in a multidisciplinary team with pharmacy, nurses, and physicians
5. Complete written projects and oral presentations for the pharmacy department
6. Excel in leadership and communication skills

## **Advanced Pharmacy Practice Experience (ANTICOAGULATION)**

### **Objectives**

1. Assess anticoagulation therapy for all inpatients, taking into consideration any potential problems affecting successful anticoagulation (i.e. other medications, social or financial problems, drug interactions, OTC drugs, and herbals)
2. Evaluate and apply current guidelines in the management of antithrombotic therapy
3. Aid in developing hospital anticoagulant protocols
4. Provide patient education (verbal and written) necessary for successful therapeutic outcomes
5. Identify, evaluate, and communicate to the patient and other health care professionals the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, dosage forms, routes of administration, and delivery systems
6. Explain the pathophysiology and treatment of common hypercoagulable disease states including but not limited to: antiphospholipid syndrome, protein C & S deficiency, factor V leiden deficiency, prothrombin gene mutation, and antithrombin deficiency
7. Explain the pharmacology of current and future anticoagulants
8. Retrieve, evaluate, manage, and use clinical and scientific publications in the decision-making process

## **Advanced Pharmacy Practice Experience (CONSULTING)**

### **Goals:**

1. To develop an understanding of the role of the consultant pharmacist in a facility providing long-term care
2. Discuss the various federal and state rules and regulations pertaining to the provision of pharmaceutical services in a long-term care facility
3. To advance an understanding of Joint Commission on Accreditation of Healthcare Organizations guidelines
4. Collect, organize, and evaluate patient information from various sources including the patient chart, laboratory reports, medication administration records, communications with patient/other health care providers
5. To develop a pharmacist who can select, initiate, and monitor drug therapy for achievable therapeutic outcomes
6. To develop a pharmacist who can provide drug information in the pharmaceutical care practice setting
7. To develop written and verbal communication skills necessary to provide drug information and education to patients and other healthcare providers
8. To develop the critical thinking, decision-making, and professional skills to optimize patient outcomes

### **Objectives:**

1. Defines responsibilities of a clinical pharmacy consultant
2. Describe the role and function of the clinical pharmacist as a member of the I To advance an understanding of Joint Commission on Accreditation of Healthcare Organizations guidelines
3. Describe the role of the pharmacist as a consultant to the administration, staff, and patients of a long-term care facility
4. Describe the morbidity and mortality of the patient population specific to the site and this population's particular pharmaceutical care requirements
5. Describe process for conducting medication use evaluations
6. Gain understanding and experience in formulary management and control
7. Demonstrate appropriate management of verbal and/or written consultations
8. Apply disease state knowledge to evaluate therapeutic options for given diagnoses
9. Describe the role of the Pharmacy and Therapeutics (P&T) Committee
10. Demonstrate the ability to research, review, and critically evaluate pertinent drug literature to answer drug information questions
11. Demonstrate the ability to communicate with patients and other healthcare providers regarding drug therapy
12. Research and provide formal written answers to drug information questions
13. Update or maintain sample policies and procedures for site

## **Advanced Pharmacy Practice Experience (DRUG INFORMATION)**

### **Rotation Goals and Objectives:**

1. The Advance Pharmacy Practice Experience in Drug Information consists of a five (5) week rotation with the Drug Information Services. The APPE is intended to develop the student's knowledge and skills in the provision of Drug Information, including processing of requests, development of systematic searches, retrieval and evaluation of information and communication of responses.
2. Core Activities and Competencies: (Adapted from the revised *Accreditation Standards and Guidelines for the Professional Program in Pharmacy Leading to the Doctor of Pharmacy Degree*, adopted by the Accreditation Council for Pharmacy Education (ACPE) on January 15, 2006.)

The following are core competencies that should be achieved or recommended activities that should be experienced during the Advanced Practice Experience rotations.

- Provision of pharmacist-driven care and direct interaction with a diverse patient population in a variety of practice settings.
- Collaboration with other healthcare professionals.
- Active participation in patient care activities/responsibilities.
- Development of professional and ethical behavior. Demonstration of personal responsibility, self-motivation, and good professional judgment.
- Interpretation of prescriptions/medication orders.

### **Goals:**

The goals of the APPE in Drug Information are:

1. To familiarize yourself with the development, organization, and operation of the Drug Information Service
2. To enable yourself to gain proficiency in the use of all available references – primary, secondary and tertiary.
3. To provide an opportunity to enhance your written and verbal communication skills
4. To provide an opportunity to apply your knowledge of physiology, pharmacology, and pharmacotherapeutics to the provision of drug information.

### **Objectives:**

Upon completion of the APPE in Drug Information, the student will be able to:

1. Describe the organization and responsibilities of the Drug Information Service
2. Discuss the efficient approach to processing a drug information request.

Given a drug information request, the student will be able to:

- Obtain additional information as needed
- Identify the individual requesting the information
- Classify the request
- Outline a search strategy

- Collect the necessary information from appropriate resources
  - Evaluate the information
  - Formulate a response
  - Communicate the response
3. Differentiate between tertiary, secondary, and primary resources, including their individual uses, advantages and disadvantages.
  4. Compare and contrast printed and online resources.
  5. Demonstrate proficiency in the searching for appropriate information
  6. Demonstrate proficiency in the application of the information.
  7. Complete a formulary monograph or other written project
  8. Explain the pro's and con's of the formulary system
  9. Demonstrate competency in the assessment and evaluation of drug literature
  10. Discuss ethical issues involved in the operations of a Drug Information Service and in the practice of pharmacy.

## **Advanced Pharmacy Practice Experience (HOME INFUSION)**

### **Objectives:**

1. Participate in all aspects of pharmacy services offered from the home infusion services, from hospital discharge to home to completion of therapy
2. Provide drug information including changes to medication regimens to nurses, patient, and/or caregivers.
3. Evaluate patient's pharmacotherapeutic regimen including monitoring and reviewing of lab values, dosage changes, administration, pump choice, medical supply needs, or additional therapies based on patient response.
4. Gain experience in different infusion drug delivery methods and appropriate selection based on clinical need, financial burden, and patient demographics.
5. Review and understand types of IV access and appropriate care of these sites.
6. Participate in review of USP 797 and clean room requirements as outlined by facilities' requirements
7. Complete any assigned oral and written presentation requirements as determined by preceptor and/or need.
8. The student's capability to execute the above duties will be assessed through the grade evaluation forms

## **Advanced Pharmacy Practice Experience (HOSPICE)**

### **Objectives:**

1. Evaluate patient's pharmacotherapeutic regimen at a time when their disease is no longer curative and control of pain and other symptoms is imperative.
2. Provide drug information including changes to medication regimens to hospice staff, patient, and/or caregivers.
3. Participation in interdisciplinary committee meetings.
4. Review the pharmacotherapy of common disease states found in hospice care including but not limited to pain management, constipation, urinary incontinence as related to patient care.
5. Review drug delivery of the medications in order that medications are being received based on objective information as opposed to habit or personal preference.
6. Provide cost effective medication management to the patient.
7. Complete any assigned oral and written presentation requirements as determined by preceptor and/or need.
8. The student's capability to execute the above duties will be assessed through the grade evaluation forms

## **Advanced Pharmacy Practice Experience (INVESTIGATIONAL DRUGS)**

The student will work directly with the Investigational Drug Pharmacist to develop a basic understanding of the proper acquisition, storage, handling, and dispensing of investigational drugs for active clinical trial protocols in the institution. In addition, the student will develop a basic understanding of the local and federal regulations that govern clinical trials and investigational drugs.

### **Goals and Objectives**

1. Develop a working knowledge of the FDA regulations related to investigational drugs (CFR 21:312), specifically:  
312.6 (Investigational new drug labeling)
  - 312.59 (Unused investigational drug disposition)
  - 312.60 (General responsibility of investigator)
  - 312.61 (Control of investigational drugs)
  - 312.62 (Investigator recordkeeping)
  - 312.68 (Inspection of records and reports)
  - 56.104 (Emergency Use)
2. Develop a working knowledge of the FDA regulations related to clinical trials, including:
  - 45 CFR 46 (Protection of human subjects)
  - ICH E6 (Guidance for Industry: good clinical practice: consolidated guidance)
3. Develop and demonstrate an understanding of proper investigational drug documentation:
  - investigator recordkeeping;
  - drug disposition records;
  - inventory logs;
  - patient dispensing logs;
  - preparation/compounding instructions;
  - door-to-door chain-of-custody;
  - retention procedure;
  - state Board of Pharmacy requirements;
  - Continuous Quality Improvement (CQI) procedures.
4. Develop and demonstrate an understanding of proper investigational drug dispensing:
  - investigational drug control;
  - investigational drug labeling;
  - disposition of unused supply of investigational drug;
  - monitoring of equipment (refrigerator, freezer, super-cold freezer temperatures);
  - cold chain management;
  - response and recovery plan.



## **Advanced Pharmacy Practice Experience (LEGAL)**

### **Goals & Objectives:**

1. Collaboration with lawyers, paralegals and other legal staff.
2. Active participation in our pharmacy administrative practice by doing some or all of the following: initial or developmental client meetings, research of relevant NJ or Federal statutes and regulations, review evidence and prepare spread sheets for inventory analysis in DEA or Medicaid fraud matters, assist lawyers in administrative hearings or depositions, prepare memos on relevant legal or factual issues and attend hearings.
3. Active participation in asbestos litigation by doing all or some of the following: assist in deposition preparation for lawyers, attend depositions, summarize plaintiff, defendant and expert depositions, summarize medical records in cancer cases, analyze chemotherapeutic agents used to treat lung cancer and mesothelioma, analyze diagnostic techniques for mesothelioma, research medical literature for low dose mesothelioma cases like brakes and electrical wire, assist in trial preparation.
4. Active participation in our drug related litigation by doing all or some of the following: research and prepare memos on the specific drugs and their adverse effects, attend depositions, summarize plaintiff, defendant and expert depositions, summarize medical records, interview clients for appropriate medical histories, summarize medical literature on what was know or knowable regarding the specific hazards from the drug or device.
5. Review the literature and prepare memos on potential new drug or device litigation.
6. Development of professional and ethical behavior by participating in real situations where the standards where not met.
7. Demonstration of personal responsibility, self-motivation, and good professional judgment.
8. Research and help prepare PowerPoint's for Pharmacy CE programs.

## **Advanced Pharmacy Practice Experience (LONG TERM CARE)**

### **Goals:**

1. To develop an understanding of the role of the dispensing pharmacist in a pharmacy providing services to patients in long-term care facilities.
2. Discuss the various federal and state rules and regulations pertaining to the provision of pharmaceutical services in a long-term care facility
3. To advance an understanding of Joint Commission on Accreditation of Healthcare Organizations guidelines
4. Collect, organize, and evaluate patient information from various sources including the laboratory reports, medication administration records, and communications with patient/other health care providers
5. To develop a pharmacist who can select, initiate, and monitor drug therapy for achievable therapeutic outcomes
6. To develop a pharmacist who can provide drug information in the pharmaceutical care practice setting
7. To develop written and verbal communication skills necessary to provide drug information and education to other healthcare providers
8. To develop the critical thinking, decision-making, and professional skills to optimize patient outcomes

### **Objectives:**

1. Define and differentiate between the responsibilities of a clinical pharmacy consultant and a pharmacist providing dispensing services to a long term care facility
2. Demonstrate the ability to research, review, and critically evaluate pertinent drug literature to answer drug information questions
3. Demonstrate the ability to communicate with other healthcare providers regarding drug therapy
4. Research and provide formal written answers to drug information questions
5. Update or maintain policies and procedures for site
6. Effectively use the pharmacy's prescription filling software to fill prescriptions, check for drug interactions, retrieve patient profiles and retrieve drug information.
7. Effectively fill prescriptions utilizing the pharmacy's workflow, including automation devices (if applicable).
8. Effectively perform a final verification of the prescription to ensure appropriateness of drug selected, dosage and strength; accuracy of transcription from hardcopy prescription to patient MAR, and that the patient has no contraindications or drug-drug, drug-disease interactions with the new medication.
9. Effectively troubleshoot problems with on-location drug supply and resolve these issues to the satisfaction of the preceptor and the patient.
10. Explain the method of inventory control used by the pharmacy staff and wholesalers that are used to ensure "in stock inventory".
11. Effectively perform a DUR on a patient's profile to determine drug-drug, drug-disease interactions, contraindications, overlapping side effects, nonadherence

- to drug therapy, appropriate therapeutic regimens for disease states present, appropriate frequency of dosing and strength of a medication.
12. Collaborate with physicians and other health care providers to provide recommendations to drug therapy to enhance quality of care and the patients quality of life.
  13. Effectively communicate with prescribers regarding necessary adjustments to a patient's drug regimen.
  14. Interpret and compound prescriptions for oral, parenteral, and topical products that would be considered "pharmaceutically elegant".
  15. Explain the schedules of control substances, storage requirements and dispensing and inventory procedures.

## **Advanced Pharmacy Practice Experience (MAIL ORDER)**

### **Goals**

1. To gain a greater appreciation for the complexity of mail order pharmacy practice.
2. To develop practical clinical skills that will enable the student to enhance the quality of life of patients and advance pharmaceutical care in the mail order pharmacy setting.
3. To provide experiences in order to enhance communications skills when dealing with patients and with other healthcare providers.
4. To foster life-long learning via a self-directed educational process.

By the end of the rotation the student should be able to:

1. Effectively use the pharmacy's prescription filling software to fill prescriptions, check for drug interactions, retrieve patient profiles and retrieve drug information.
2. Effectively fill prescriptions utilizing the pharmacy's workflow, including automation devices (if applicable).
3. Effectively perform a final verification of the prescription to ensure appropriateness of drug selected, dosage and strength; accuracy of transcription from hardcopy prescription to patient label, appropriateness of auxiliary labels, and that the patient has no contraindications or drug-drug, drug-disease interactions with the new medication.
4. Effectively troubleshoot problems with patient at-home drug supply and resolve these issues to the satisfaction of the preceptor and the patient.
5. Explain the method of inventory control used by the pharmacy staff and wholesalers that are used to ensure "in stock inventory".
6. Effectively perform a DUR on a patient's profile to determine drug-drug, drug-disease interactions, contraindications, overlapping side effects, nonadherence to drug therapy, appropriate therapeutic regimens for disease states present, appropriate frequency of dosing and strength of a medication.
7. Collaborate with physicians and other health care providers to provide recommendations to drug therapy to enhance quality of care and the patient's quality of life.
8. Explain techniques that a mail order pharmacist can use to effectively counsel patients and meet mandated patient counseling requirements.
9. Effectively communicate with prescribers regarding necessary adjustments to a patient's drug regimen, utilizing the tools available in mail order pharmacy.
10. Effectively communicate with patients counseling points and changes made to a drug regimen, utilizing the tools available in mail order pharmacy.
11. Interpret and compound prescriptions that would be considered "pharmaceutically elegant."
12. Explain the schedules of control substances, storage requirements and dispensing and inventory procedures.

## **Advanced Pharmacy Practice Experience (MANAGE CARE)**

### **Goals:**

1. To enhance the student's knowledge base in concepts of managed care.
2. To effectively and professionally communicate with health care providers, patients, their families or other managed care professionals.
3. To prepare and motivate students to commit to life-long learning in the rapidly changing healthcare environment.
4. To develop the students clinical skills and sense of professional responsibility as a pharmacy practitioner in a managed care organization.

### **Objectives:**

1. Actively participate in retrieving, analyzing and effectively conveying drug information to formulary management for the P&T Committee and Prior Authorization staff.
2. Participate in the ongoing process of evaluation and revision of the formulary through clinical review of new drugs and therapeutic drug classes, data analysis, pharmacoeconomic review, benefit design impact and disease management impact.
3. Participate in the development and update of clinical drug policies.
4. Understand the Pharmacy Lock-In process including various issues and decisions relating to the members.
5. Understand the disease management process and programs available.
6. Demonstrate an understanding of responsibilities of several internal departments and their role in the management of cost-effective healthcare.
7. Present a managed care focused journal club article to the health services team.
8. Participate in various meetings such as Lock-In and P&T.

## **Advanced Pharmacy Practice Experience (PHARMACY MANAGEMENT)**

### **Objectives:**

1. Understand the skills necessary in devising and maintaining a pharmacy budget
2. Review list of pharmacy medications and identify what medications are necessary to stock
3. Recognize the appropriate managing tools needed to supervise pharmacists and technicians
4. Develop and implement a medication use evaluation for any specific drug
5. Understand and recognize adjustments needed to maintain a medication formulary

## **Advanced Pharmacy Practice Experience (MEDICAL EDUCATION)**

Providing medical education is an essential responsibility of pharmacists. It is imperative that pharmacists possess advanced problem-solving skills to best respond to increasingly complex inquiries in all settings of pharmacy practice. Medical communication companies provide various types of products including clinical drug monographs, presentations, sales training slide kits, and various promotional materials.

### **Goals:**

1. To provide the student with experience in the pharmaceutical industry or medical information/communication company setting
2. To improve the student's communication and presentation skills
3. Expose the student to various literature searching databases to perform literature searches tailored to the needs of specific medical information inquiries
4. To fortify the student's literature searching and evaluation skills
5. Critically evaluate literature to be used as supporting documentation in responding to medical information inquiries
6. To strengthen the student's problem-solving skills.

### **Objectives:**

1. Integrate effective oral and written communication skills into daily rotation activities
2. Evaluate and critique published medical literature
3. Explain federal guidelines for pharmaceutical manufacturers providing medical information
4. Prepare verbal/written responses to medical information requests from both health care professionals and consumers under the direct supervision of a medical information specialist
5. Apply medical information request documentation skills using medical information documentation software used in the pharmaceutical industry or medical communication company
6. Formulate adverse event and product complaint reports suitable for submission to regulatory affairs, under the direct supervision of a medical information specialist
7. Define the role of a pharmacist providing drug information in the pharmaceutical industry.
8. Assess differences among academic-based, hospital-based, and industry-based drug information centers

## **Advanced Pharmacy Practice Experience (MEDICAL COMMUNICATION)**

### **Goals**

1. To provide a structured environment for acquisition of knowledge and experience in the provision of drug information services
2. To develop knowledge about the organizational structure and function of departments and divisions within a company
3. Gain experience working closely with medical writers, editors, and graphic designers
4. Develop proficiency in market research, literature evaluation and communication skills
5. To develop medical writing skills through activities such as preparation of written responses to drug information requests, review articles, and research results for publication
6. To develop strong verbal presentation skills through providing informal educational services by giving in-services to pharmacists and other health care professionals

### **Objectives**

1. Succinctly and accurately summarize review articles and clinical trials relevant to therapeutic areas
2. Write a monograph summarizing scientific literature for a new product or new therapeutic indication for an approved product
3. Write a summary of a review article or clinical trial
4. Effectively handle drug information inquiries within a health-system
5. Demonstrate proficiency in handling adverse events reports
6. Create and update standard responses for product information database
7. Write response letters for healthcare professional inquiries
8. Demonstrate proficiency in handling live telephone inquiries as assigned



## **Advanced Pharmacy Practice Experience (NUCLEAR)**

### **Goals and Objectives**

1. Understand and demonstrate proper handling of radioactive materials to ensure safety and the consequences of radiation exposure
2. Review and discuss the radiopharmaceutical classes, compounding procedures, stability, and indications
3. Review prescription orders for proper indications
4. Discuss the proper procedures in calibrating instruments
5. Calculate accurately the patient specific doses and amount required
6. Actively participate in compounding radioactive materials safely

## **Advanced Pharmacy Practice Experience (ORGAN TRANSPLANT)**

### **Objectives:**

1. Practice as a member of the interdisciplinary transplant team
2. Identify, evaluate, and communicate to the patient and other health care professionals the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, dosage forms, routes of administration, and delivery systems
3. Identify and report medication errors and adverse drug reactions
4. Manage drug regimens through monitoring and assessing patient information
5. Provide patient education to transplant recipients and donors
6. Retrieve, evaluate, manage, and use clinical and scientific publications in the decision-making process
7. Explain the different therapeutic needs of living and cadaveric kidney transplant recipients
8. Identify pertinent laboratory tests and calculations important in transplantation
9. Differentiate between induction, maintenance, and adjunctive therapies used in transplant patients
10. Discuss the use of immunosuppressant medications in specific patient populations including high immunologic risk, pregnancy, etc.
11. Develop treatment plans for other co-morbidities including hypertension, diabetes, urinary tract infections, etc.

## **Advanced Pharmacy Practice Experience (PAIN MANAGEMENT)**

### **Objectives:**

1. Differentiate patients with acute versus chronic pain.
2. Excel on the pathophysiology and clinical presentation of pain
3. Discuss the various pain assessment tools available
4. Compare the nonpharmacologic and pharmacotherapy management of patients with acute and chronic pain in an outpatient/inpatient setting.
5. List the drug treatment options available for patients with acute and chronic pain
6. Define addiction, tolerance, physical/psychological dependence
7. Educate patients receiving drug therapy (including side effects, therapeutic duplications with OTC drugs, and drug interactions)

## **Advanced Pharmacy Practice Experience (PERFORMANCE IMPROVEMENT)**

### **Objectives:**

1. Participate in providing support for ongoing research projects and initiatives.
2. Attend any meetings pertinent to ongoing projects as required by preceptor.
3. Complete any assigned oral and written presentation requirements as determined by preceptor and/or need.
4. The student's capability to execute the above duties will be assessed through the grade evaluation forms

## **Advanced Pharmacy Practice Experience (REHABILITATION)**

### **Goals:**

1. To develop an understanding of the role of the dispensing pharmacist in a pharmacy providing services to patients in rehabilitation facilities.
2. Discuss the various federal and state rules and regulations pertaining to the provision of pharmaceutical services in a rehabilitation facility
3. To advance an understanding of Joint Commission on Accreditation of Healthcare Organizations guidelines
4. Collect, organize, and evaluate patient information from various sources including the laboratory reports, medication administration records, and communications with patient/other health care providers
5. To develop a pharmacist who can select, initiate, and monitor drug therapy for achievable therapeutic outcomes
6. To develop a pharmacist who can provide drug information in the pharmaceutical care practice setting
7. To develop written and verbal communication skills necessary to provide drug information and education to other healthcare providers
8. To develop the critical thinking, decision-making, and professional skills to optimize patient outcomes

### **Objectives:**

1. Define and differentiate between the responsibilities of a clinical pharmacy consultant and a pharmacist providing dispensing services to a rehabilitation facility
2. Demonstrate the ability to research, review, and critically evaluate pertinent drug literature to answer drug information questions
3. Demonstrate the ability to communicate with other healthcare providers regarding drug therapy
4. Research and provide formal written answers to drug information questions
5. Update or maintain policies and procedures for site
6. Effectively use the pharmacy's prescription filling software to fill prescriptions, check for drug interactions, retrieve patient profiles and retrieve drug information.
7. Effectively fill prescriptions utilizing the pharmacy's workflow, including automation devices (if applicable).
8. Effectively perform a final verification of the prescription to ensure appropriateness of drug selected, dosage and strength; accuracy of transcription from hardcopy prescription to patient MAR, and that the patient has no contraindications or drug-drug, drug-disease interactions with the new medication.
9. Effectively troubleshoot problems with drug supply and resolve these issues to the satisfaction of the preceptor and the patient.
10. Explain the method of inventory control used by the pharmacy staff and wholesalers that are used to ensure "in stock inventory."
11. Effectively perform a DUR on a patient's profile to determine drug-drug, drug-disease interactions, contraindications, overlapping side effects, appropriate

therapeutic regimens for disease states present, appropriate frequency of dosing and strength of a medication.

12. Collaborate with physicians and other health care providers to provide recommendations to drug therapy to enhance quality of care and the patient's quality of life.
13. Effectively communicate with prescribers regarding necessary adjustments to a patient's drug regimen.
14. Effectively communicate with patients regarding their drug regimen.
15. Interpret and compound prescriptions for oral, parenteral, and topical products that would be considered "pharmaceutically elegant."
16. Explain the schedules of control substances, storage requirements and dispensing and inventory procedures.

**Advanced Pharmacy Practice Experience  
(STRATEGIC ANALYSIS & INTELLIGENCE)**

**Goals & Objectives:**

1. Evaluate and summarize appropriate key “R & D” decision making with actionable analytics and insights focusing on implications and opportunities for site as we pursue the company objective of delivering innovative medicines to patients.
2. Meet with personnel from different departments within site/company to discuss their functions and contributions to R & D department.
3. Observe the role of the PharmD and other health care professionals in the pharmaceutical industry and actively participate in on-going activities.
4. Participate in various project work focused on “key business questions” in a dynamic corporate environment.
5. Identify appropriate published literature, based on available resources, to respond to a specific needs or product-related inquiry.

## **Advanced Pharmacy Practice Experience (ACADEMIA)**

### **Objectives:**

1. Maintain utmost academic professionalism and represent a role model for pharmacy students interested in academia
  - Develop proficient attitudes towards academic integrity and civility in both classroom and experiential settings
2. Enhance the ability to multitask by improving time management and organizational skills
3. Complete an oral presentation in either course lecture or at preceptor's clerkship site (i.e. noon conferences or patient educational activities)
4. Attain knowledge of different teaching techniques
5. Outline the organizational structure of a didactic course and deliver the teaching opportunity
  - Practice writing appropriate learning objectives
  - Participate in didactic courses and clerkship activities (i.e. lectures, seminars, case presentations, laboratories, and practical)
6. Create a teaching philosophy
7. Review the process of creating a manuscript for publication
8. Describe how to peer and self-assess class assignments and projects



## **Advanced Pharmacy Practice Experience (SPECIALTY PHARMACY ROTATION)**

### **Goals and Objectives:**

1. Appreciate what specialty pharmaceuticals are and which chronic/genetic conditions they are used to manage
2. Recognize the medications that are considered specialty pharmaceuticals
3. Identify when counseling or education is required for specialty pharmaceuticals are prescribed for a patient
4. Monitor the patient's clinical response to the specialty pharmaceutical in collaboration with the healthcare provider
5. Provide patient specific dosing when needed for the specialty pharmaceutical prescribed for a patient

# **PHARMACEUTICAL ROTATIONS**

## **Advanced Pharmacy Practice Experience (PHARMACEUTICAL MEDICAL AFFAIRS)**

### **Objectives:**

1. Enhance medical writing skills through researching, creating, updating, and reviewing fair and scientifically balanced response documents to answer unsolicited medical inquiries
2. Assist with promotional materials and participate in the publication review to ensure manuscripts are scientifically accurate
3. Review the medical literature to identify educational gaps to enhance care
4. Participate in medical slide development, scientific communication, and product life-cycle management
5. Assist in developing and maintaining an internal database of medical reprints for the Medical Affairs Department

## **Advanced Pharmacy Practice Experience (PHARMACEUTICAL MEDICAL EDUCATION)**

### **Objectives:**

1. Understand the various disease focus areas in Medical Education
2. Understand the collaborative efforts required in different departments (i.e. Regulatory and Legal areas)
3. Review the importance of Independent Medical Education and compare to other programs in the pharmaceutical industry
4. Enhance the knowledge of versatility required to approach different categories of customers
5. Assist with grant proposals

## **Advanced Pharmacy Practice Experience (PHARMACEUTICAL MEDICAL INFORMATION AND COMMUNICATION)**

### **Objectives:**

1. Provide efficient and unbiased medical information to healthcare professionals, consumers, and employees
2. Develop strong literature searching and evaluation skills
3. Optimize written and verbal communication skills
4. Excel in teamwork and leadership skills
5. Enhance professional growth in both the pharmaceutical industry and academia

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL MEDICATION SAFETY)**

**Objectives:**

1. Protect patient safety by proactively reviewing safety profiles during a product's lifecycle.
2. Conduct single case assessment for possible drug causality
3. Participate in unique projects such as safety submissions
4. Participate in clinical team discussions regarding safety concerns with products
5. Assist with Drug Safety Reports pertaining to safety issues with a certain product
6. Investigate queries pertaining to specific safety issues
7. Maintain integrity and consistency of safety related information in the U.S. and global product labels

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL ADVERTISING/MARKETING)**

**Objectives:**

1. Develop tactical plans that support brand strategy, sales, marketing, and medical channels
2. Develops lifecycle management strategies to create sustainable business value for the brand
3. Manage various functions within brand marketing including professional promotion, direct-to-customer promotion, physician education and communications, market research, managed care, sales training, and public relations

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL ONCOLOGY)**

**Objectives:**

1. Collaborate with multiple departments (i.e. Legal/Regulatory, Marketing, and Medication Information)
2. Complete thorough literature searches and develop a fair balance on scientific information
3. Review previous and current clinical trials on existing or new oncology products
4. Participate with product safety reports on oncology products

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL PRODUCT SAFETY)**

**Objectives:**

1. Prepare safety assessments on current or new products
2. Understand differences of national and global safety and regulatory environments
3. Collaborate with multiple teams from different departments (i.e. medical and regulatory affairs)
4. Complete risk mitigation strategies to evaluate the safety of new products
5. Assist with written documents related to the product safety

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL REGULATORY AFFAIRS)**

**Objectives:**

1. Provide support as a member of a cross-functional product development team to achieve optimal development and lifecycle management plans
2. Review and assist with promotional materials, sales training materials, and internal and external communications for branded products
3. Ensure quality and compliance of regulatory activities

**Advanced Pharmacy Practice Experience**  
**(PHARMACEUTICAL RESEARCH AND DEVELOPMENT)**

**Objectives:**

1. Assist with assessments and time/cost estimates for clinical development programs
  2. Review clinical trials program according to established quality standards
  3. Interpret studies to support products and claims
  4. Collaborate study protocols/amendments and consult with medical experts
- Partner with the medical staff to support consumer products marketed globally

## GENERAL POLICIES FOR APPE ROTATIONS

### Cell Phone

### Confidentiality

The student is obligated to respect any and all confidences revealed during his or her assignments, including pharmacy records, fee system, professional policies, etc.

The student should keep confidential all information pertaining to the patient's health and other information of a personal nature, which may be conveyed to the student.

Respect for the patient's privacy is foremost. DO NOT discuss patients by names where you can be overheard. You have access to information that may not be known to the patient and/or their family. Under no circumstances is any part of the medical record to be photocopied or removed from the Nursing unit or the hospital. We cannot over emphasize that strict confidentiality must be observed at all times.

### Dress Code

The use of cell phones on rotation is strictly prohibited. Turn your cell phone off during the rotation.

While the student is at the practice site, patients and other professionals will recognize him/her as part of the School of Pharmacy. The student also represents the practice site and should be neat in appearance, courteous and maintain a professional decorum at all times. Students not conforming to the dress code may be asked to leave the rotation site. If we are forced to send you home for inappropriate dress, it will be considered an unexcused absence.

1. All students must wear neat, clean, white **short** lab coats and a Rutgers University Ernest Mario School of Pharmacy student name tag (Note: preceptors reserve the right to modify this rule.). Name tags from places of employment are unacceptable.
2. Female students may wear skirts, dresses, or dress slacks with appropriate hosiery and shoes (i.e., not sneakers or tennis shoes).
3. Male students must wear dress slacks, collared shirts, ties, socks, and appropriate shoes (i.e., not sneakers or tennis shoes).
4. Jeans, shorts, mini-skirts, T-shirts, etc., are inappropriate dress and are NOT allowed.
5. All students must maintain good personal hygiene at all times.

## **Employment While Completing Clerkships:**

Clerkships are full-time. Employment cannot be considered when placing students at clerkship sites or from excusing students from course responsibilities. Additionally, concurrent didactic class enrollment at Rutgers is not permitted while enrolled in APE courses.

## **Financial Responsibility**

All financial obligations associated with pharmacy education lie with the student. This responsibility also applies to the APPE and the expenses that may arise from lodging, transportation, food, and any other incidental costs (including the copying of articles, handouts, etc., while on clerkship). Students who are accepted for out-of-state clerkships arranged by the EMSOP at their request are responsible for all costs related to travel and housing. If an out-of-state clerkship is canceled by the student or the outside site, EMSOP is not responsible for reimbursement of any travel-related costs (ie. the cost of changing or cancelling plane tickets). Please make your travel arrangements only after the rotation is CONFIRMED by the site to avoid potential problems.

## **Transportation**

All students must have reliable transportation during the months they are on clerkships. There is no guarantee that a student's clerkships will be on a bus or train line or near other students who may serve as a carpool. LACK OF TRANSPORTATION WILL NOT BE ACCEPTED AS A REASON TO CHANGE ROTATION SITES, as we can not guarantee the availability of sites near mass transit.

While every attempt will be made to keep travel distance from being an unfair burden, we cannot guarantee that you will not have some rotations that are at some distance from your home. The overwhelming majority of our sites are within an hour's drive from New Brunswick/Piscataway area, which is considered to be of reasonable distance. Please keep in mind that a minor driving inconvenience for five weeks is offset by the value of the rotation experience.

## **Plagiarism and Academic Integrity**

All work done on APPE rotations must be the student's own. Plagiarism of any kind is a separable offense.

## **Policies on Professionalism and Ethical Conduct**

### **I. Criminal Background Checks**

#### **A. Requirement and Frequency**

- a. The Joint Commission for Accreditation of Health-Care Organizations (JCAHCO) now requires background checks for all students completing educational experiences. Many community pharmacies also require background checks on employees working in the pharmacy department. Prior to assignment on Ernest Mario School of Pharmacy practice experiences, students must satisfactorily pass two criminal background checks (one prior to the introductory practice experiences and a second prior to the advanced practice experiences). The University has contracted with an outside vendor (Adam Safeguard) to facilitate this process. This background check is strictly for purposes of the Introductory and Advanced Practice Experiences and does NOT replace the background check required for the New Jersey State licensure exam.
- b. Effective for the Class of 2010, criminal background checks will be required during the spring semester of the second professional year and during the spring semester of the third professional year. Effective for the Class of 2011 and beyond, criminal background check will be required during the spring semester of the first and third professional years.
- c. Students suspended or taking a leave of absence from the program, may be required to complete a new criminal background check prior to return at the discretion of the Dean or his/her designee.

#### **B. Positive Result**

- a. If a positive result or a “hit” is obtained on the criminal background check for any student the following policy will be followed.
- b. First, once the background check is received by the School of Pharmacy, the student will be required to provide a complete written explanation including time, date, and specific details surrounding the arrest. Students are encouraged to provide any additional documentation such as police reports or other court documents which may help in providing an explanation to potential rotation sites. The School of Pharmacy reserves the right to pursue judicial action under the University Code of Student Conduct, if appropriate. Results of such action (e.g. suspension, expulsion) may prevent a student from completing the program on time or at all.
- c. If judicial action is deemed necessary/appropriate, the student’s rotation assignment through the rotation selection process through the PEMS system “SPIN” or the start of his/her rotation may be delayed. If no

University judicial action is deemed necessary, after the spin is completed and the rotations are scheduled, each preceptor for a student with a hit on his/her criminal background check (CBC) will be notified of the CBC results and given the opportunity to accept or decline the student. Sites or preceptors requesting more information will be provided the written explanation of the student along with any documentation provided to the School.

- d. If a site declines the student, an alternative rotation site with open availability for the same cycle will be identified and given the opportunity to accept or decline the student based CBC results. Three attempts per rejected rotation will be made to find alternative sites.
- e. In the event that the above circumstances (e.g. no sites agree to accept the student or judicial action results in expulsion) prevent a student from completing the Doctor of Pharmacy degree, the School of Pharmacy would work with the student to help him/her to try to transfer to another unit of the University and pursue a degree in another major. However, decisions regarding accepting transfer students are made by the “receiving” unit and acceptance cannot be guaranteed.

## II. Criminal Activity During Professional Experiences

- a. Due to concern regarding the public safety and appropriate patient care the school reserves the right to temporarily remove a student from early or advanced practice experiences, in the event that a student is arrested or the School is made aware of alleged criminal activity. If, in determination of a committee composed of the Chair of the Department of Pharmacy Practice, the Vice-Chair of Experiential Programs and the Associate Dean, a student poses a risk to themselves or others, and to protect the health safety or welfare of fellow students, preceptors, or the public at large, the student will be temporarily removed from rotation while the matter is investigated. The matter will be addressed under the University Code of Student Conduct.

## III. Substance Abuse Policy

- a. The purpose of this policy is to describe the procedures that will take place if a student is suspected of or found to be involved with substance abuse. The Ernest Mario School of Pharmacy encourages all students with addiction problems to seek appropriate treatment. One of the primary aims of this policy is to also protect and maintain public safety and trust in the pharmacy profession by discouraging impaired practice.
- b. The School of Pharmacy will not perform random testing for drugs; however, drug screens may be required as a condition of participation in some experiential education settings. In the event of a positive drug



screen, the student will be referred to the Professional Assistance Program of New Jersey (PAPNJ) for evaluation. PAPNJ is an addiction treatment program that is independent of Rutgers University and the Ernest Mario School of Pharmacy.

- c. If a random drug screen is positive or evidence of drug abuse is discovered while a student is on rotation and the student is removed from rotation as a result, the student will receive an F for the rotation and be required to undergo evaluation by PAPNJ. Certification of fitness to return to rotation is required from PAPNJ before a student will be reassigned. A grade of "C" or better must be achieved on the repeated rotation (i.e. the rotation replacing the previous "F" grade). Students may request, at their expense, a retest for any positive drug screens.
- d. In the event that a student is identified or suspected of an addiction problem, including but not limited to alcohol, prescription drugs and illicit drugs, the student will be referred to PAPNJ for evaluation. Students refusing to undergo an evaluation by PAPNJ may be dismissed from the Pharm.D. program at the Ernest Mario School of Pharmacy. All evaluation, treatment, and monitoring expenses will be born by the student. All files regarding PAPNJ evaluation and treatment plans will be maintained separately from the student's academic file maintained in the Office of Academic Services. Records regarding students who have successfully completed the contractual terms of a rehabilitation contract will be maintained pursuant to University record retention policies.
- e. Participation in an appropriate rehabilitation program does not grant immunity from any legal proceedings for criminal acts involving drug misuse or illegal use. Behaviors related to substance abuse including but not limited to theft of controlled or legend drugs for personal abuse, intent to distribute such drugs, or use of false documents to obtain such substances may also be addressed under the University's Code of Student Conduct as professional or ethical violations. The School will not support continued enrollment of anyone found guilty through disciplinary action or legal prosecution of: a) legal possession of controlled substances with intent to divert or distribute b) stealing of controlled substances. Ability to continue in the Doctor of Pharmacy program does not guarantee that the New Jersey Board of Pharmacy or the Board of Pharmacy in any other state will allow the student to sit for licensure.
- f. Evaluation, diagnoses, and development of an appropriate treatment plan will be conducted by the professional staff of PAPNJ. The treatment plan may include in-patient care. If the treatment plan does include in-patient care, the student must enroll immediately in a program approved by PAPNJ (i.e. must meet the needs identified by PAPNJ for treatment). Under such circumstances, students will be granted a leave of absence and guaranteed readmission to the School of Pharmacy upon

documentation of satisfactory completion of the treatment program and enrollment in an appropriate aftercare plan as recommended by PAPNJ.

- g. If after evaluation, the student is referred for treatment and/or monitoring, the student must sign a contract with the School of Pharmacy regarding details of participation and criteria for readmission to the School of Pharmacy. The contract will include the treatment plan, the responsibility of the student, and consequences of successful and unsuccessful completion of the program. The contract should include:
1. Length of treatment (inpatient and outpatient) length and type of aftercare program
  2. Mandatory participation in an appropriate support group
  3. Periodic reports from aftercare therapist, employers and support group network
  4. Mandatory announced and unannounced urine and/or blood screening
  5. Conditions under which the student may return to the School of Pharmacy
  6. Assurance of confidentiality
  7. Notification of clinical preceptors on rotations regarding the status of the student in the rehabilitation program (and current employer if applicable) The School of Pharmacy must have a letter of certification from PAPNJ attesting to the student's successful rehabilitation and readiness to resume studies for a degree in pharmacy before the student will be allowed to resume studies and/or enter any component of the experiential program. If a letter of certification is not provided within 12 months of entering the rehabilitation program, the student shall be deemed no longer in the School of Pharmacy. If an impaired student is charged with noncompliance with the rehabilitation contract with the School of Pharmacy, he or she will be given a hearing before the Dean. The student may be dismissed from the School of Pharmacy by the Dean for failure to adhere to the rehabilitation contract.
- IV. Health Insurance Portability and Accountability Act (HIPAA) Students are required to adhere to the Health Insurance Portability and Accountability Act (HIPAA) during all rotations. Violations of HIPAA and patient confidentiality will result in removal from rotation, a failing grade for that rotation, and may result in civil or criminal penalties as proscribed by the current HIPAA regulations. Civil and Criminal Penalties Per HIPAA Regulations (United States Department of Health and Human Services. Protecting the Privacy of Patients' Health Information. 2006 September [cited June 27, 2007] [1 screen]. Available from: URL: <http://www.hhs.gov/news/facts/privacy.html>.): The Health and Human Services Office for Civil Rights can impose civil or criminal penalties for HIPAA violations. For civil violations of the standards,

OCR may impose monetary penalties up to \$100 per violation, up to \$25,000 per year, for each requirement or prohibition violated. Criminal penalties apply for certain actions such as knowingly obtaining protected health information in violation of the law. Criminal penalties can range up to \$50,000 and one year in prison for certain offenses; up to \$100,000 and up to five years in prison if the offenses are committed under "false pretenses"; and up to \$250,000 and up to 10 years in prison if the offenses are committed with the intent to sell, transfer or use protected health information for commercial advantage, personal gain or malicious harm.

## **GRADING of ROTATIONS**

All grades are assigned by the preceptor.

A mid-point evaluation will be provided to each student by the preceptor to document the student's progress so far on the rotation. If a midpoint evaluation is not offered by the preceptor, the student should request one.

Grades should be submitted on the final day of the rotation. If on the final day of rotation, the student has not completed the requirements of the rotation or has not made up missed time satisfactorily, a grade of INCOMPLETE will be assigned.

Students removed from a rotation will receive a grade of F (failing) and must repeat the rotation. The repeat does not need to be, and in most cases will not be, with the same preceptor, but does need to be of the same overall type.

For example, if a clinical rotation is failed, another clinical rotation must replace it. If a community rotation is failed, another community rotation must be completed.

All rotation grades of D must be repeated (with the same rotation type (see example above)).