



- Utilize medication profiles and other appropriate monitoring instruments for therapeutic problem solving
- Identify potential medication noncompliance, and use appropriate methods to intervene
  - Manage adherence program at the store
  - Recognize and appropriately manage patients with physical and sensory deficits to help improve medication use and any issues regarding compliance
- Provide patient education for both prescription and OTC medications by verbal, written, audio-visual, and group discussion techniques
  - Demonstrate effective communication skills with patients
- Use appropriate pharmacy laws and ethics at the practice site
  - Become familiar with controlled substances
  - Be able to identify a fraudulent prescription
  - Identify a legitimate patient provider relationship
  - Know the rights and ramifications of NOT filling a prescription
- Acquire a working knowledge of the most common therapeutic agents
  - List brand names, generic names and patient counseling information
  - Discuss OTC pharmacotherapy options
- Appropriately utilize the computer systems at the practice site
  - Ability to successfully transmit third party claims

### **Professional Competencies and Outcome Expectations To Be Achieved**

#### **PRACTICE-BASED OUTCOMES**

1. Gather and organize patient information in order to identify ongoing or potential drug-related problems and the root cause of the problems.
2. Interpret and evaluate pharmaceutical data and related information needed to prevent or resolve medication-related problem.
3. Provide drug information and education and promote public health.

#### **ABILITY-BASED OUTCOMES**

1. ***Thinking Abilities:*** The student shall find, understand, analyze, evaluate and synthesize information and shall make informed, rational, responsible, and ethical decisions.
2. ***Communication Abilities:*** The student shall read, write, speak, listen, and use data, media and computers to effectively communicate with a variety of audiences and different purposes.

3. ***Responsible Use of Values and Ethical Principles:*** The student shall demonstrate sensitivity to and facility with personal values and ethical principles in professional and social contexts.
4. ***Social Awareness and Social Responsibility:*** The student shall demonstrate a basic understanding of the strengths and problems of cultural diversity and the historic responses of society, as they relate to oneself and to others.
5. ***Social Interaction and Citizenship:*** The student shall demonstrate effective interpersonal and inter-group behavior in a variety of situations and circumstances.

## **NAPLEX Competencies To Be Achieved**

### **Area One**

- 1.1.1 Identify and assess patient information including medication, laboratory, and disease
- 1.1.2 Identify and define the etiology, terminology, signs, and symptoms associated with diseases and medical conditions and their causes and determine if medical referral is necessary
- 1.2.1 Identify specific uses and indications for drug products and recommend drug choice for specific diseases or medical conditions
- 1.2.4 Identify and evaluate potential contraindications and provide information about warnings and precautions associated with a drug product's active and inactive ingredients
- 1.3.2 Evaluate patient signs and symptoms, and the findings of monitoring tests and procedures to determine the safety and effectiveness of pharmacotherapy. Recommend needed follow-up evaluations or tests when appropriate

### **Area Two**

- 2.1.0 Demonstrate the ability to perform calculations required to compound, dispense, and administer medication.
- 2.1.1 Calculate the quantity of medication to be compounded or dispensed; reduce and enlarge formulation quantities and calculate the quantity of ingredients needed to compound the proper amount of the preparation
- 2.2.1 Identify drug products by their generic, brand, and/or common names
- 2.2.2 Identify whether a particular drug dosage strength or dosage form is commercially available and whether it is available on a nonprescription basis.
- 2.2.3 Identify commercially available drug products by their characteristic physical attributes.
- 2.2.5 Identify and provide information regarding appropriate packaging, storage, handling, administration, and disposal of medications.
- 2.3.1 Identify techniques, procedures, and equipment related to drug preparation, compounding, and quality assurance.

## Area Three

- 3.1.1 Identify the typical content of specific sources of drug and health information for both health care providers and consumers, and recommend appropriate resources to address questions or needs.
- 3.2.1 Recommend and provide health care information regarding the prevention and treatment of diseases and medical conditions, including emergency patient care and vaccinations.
- 3.2.2 Recommend and provide health care information regarding nutrition, lifestyle, and other non-drug measures that promote health or prevent the progression of a disease or medical condition.
- 3.2.4 Recommend and provide information regarding the selection, use, and care of medical/surgical appliances and devices, self-care products, and durable medical equipment, as well as products and techniques for self-monitoring of health status and medical conditions.

### Suggested Reading/TextBooks

There is no required text for this course. Some suggested references are:

Drug Information Handbook  
20<sup>th</sup> Edition, 2011

Martindale: The Complete Drug  
Reference  
37<sup>th</sup> Edition, April 2011

### Site Selection

Assignment of student rotations will be done using the means and technologies available to the office of the Co-Director of Experiential and External Programs. Rotation sites will be assigned based on program objectives first, and the elective preferences expressed by the student (to the extent they can be met). **Students are required to report to their preceptor 2 weeks prior to the start of the rotation.** The intent of this is to determine directions to the rotation site, as well as to allow the preceptor to address any issues pertinent to the rotation. **The rules, policies and procedures in force at your rotation site, wherever they demand more than those stated in this document, will be adhered to by the student.**

### Student Responsibilities

#### *Attendance Policy*

Students are required to be at rotation sites every day of the rotation period. In the event of situations arising which prevent them from being at their site, they need to inform the preceptor at the earliest time possible. Absences due to professional obligations (i.e. professional meetings, interviews for internship, etc) severe illness (i.e. requiring medical attention), response to summonses or subpoenas from the Courts, or death in the immediate family are the only situations now considered to be excusable absences. Personal plans, e.g. attendance at weddings, funerals, vacations, etc. are not considered valid reasons for absence from your rotation site. **Arrangements for pressing business or medical needs to be met, should be made with the preceptor in a timely way.**

**This is up to the discretion of the preceptor, and the student should be fully prepared to repay the time lost either in real time, or through completion of a project. In addition to notification of the preceptor, the co-Director of Experiential Programs must also be informed whenever some event prevents the student from attending the rotation.** It should be expected that the preceptor will spell out the conditions necessary to make up the missed time.

Students are required to be available to the experiential program from 8AM to 5PM every day of the rotation. If the site requires a “flexible” time schedule; you will be notified before the start of the rotation. Students are strongly urged to arrange their employment schedules so that there is no conflict. Whenever the experiential program and work schedules collide, the program will take precedence.

Students are required to arrive punctually at the rotation site daily. It is a requirement that students be at their assigned rotation sites for 8 hours/day, 5 days/week for the duration of the rotation. The only exception to this requirement is school-mandated activities. The preceptor will make the final determination if/when a student has to report for a federal holiday. The preceptors should be expected to require that time be made up.

### ***Dress Code***

- Students must arrive at their rotation sites in professional attire. Jeans and sneakers are absolutely forbidden. Open-toed shoes and sandals should not be worn by the rotation site.
- Shirts and ties must be worn by male students. Clean white pharmacy jackets are required to be worn. At all times, student attire and demeanor must be professional and exemplary.
- Students are required to have good personal hygiene. Use of perfumes and colognes should be held to a minimum since excessive use can provoke allergic responses in patients and colleagues.

### ***Professionalism***

Students of Howard University School of Pharmacy are required to exhibit the following professional behaviors during rotations:

- Exercise effective time management that places the patients needs first at all times
- Applies professional and ethical standards of practice when communicating with others
- Communicates effectively with other health professionals (physicians, nurses etc). Student obtains and provides accurate and concise information in a professional manner by appropriate use of oral, written or/and non-verbal language.
- Clearly exhibits reliability and credibility in dealing with others
- Is assertive and self motivated
- Is conscientious in following appropriate work procedures, keeping accurate records, documenting actions and takes appropriate steps to ensure accuracy in services delivered.
- Is diligent in making sound judgment, and gives thought to possible consequences

### **Preceptor Responsibilities**

The preceptor is, in fact, adjunct faculty of the School of Pharmacy, and is considered to be the authority figure at the site. All the guidelines and policies which govern Howard

University faculty will be operative. Questions, suggestions, requests and other concerns should be initially addressed by dialogue between the student and preceptor

The preceptor should make sure that the student gets an appropriate orientation to the site and is introduced to appropriate persons at the work site. Detailed instruction to the student concerning tasks which are required to be done will be provided by the preceptor.

The preceptor should meet with the student on the first or second day of the rotation to review what is expected of the student during the rotation. Students may also have individual goals to be addressed.

The preceptor should provide feedback to the student during the rotation on how they are progressing during the rotation.

### **Portfolio Assignments**

The successful completion of a portfolio which contains a number of projects assigned to the students, and a compilation of documents/activities generated throughout the senior year, is a prerequisite for getting a passing grade for the IPPE rotation. The required assignments for IPPE I include

- IPPE I Community Worksheet
- Medical Device Comparison Chart
- OTC Comparison Chart

Additional assignments may be assigned by both the preceptor, and Co-Director of the Experiential Program. All such projects have to be completed in order to achieve a passing grade for the rotation. All portfolio assignments, after preceptor review, must be uploaded to Myfolio on E-Value **no later than 5 days after the end of the rotation.**

### **Evaluation**

The student evaluation should be completed by the preceptor within a week of the completion of the rotation. All evaluations should be completed utilizing the e-value system. If your preceptor does not have an e-value log in ID and password; please tell him/her to contact Tamara Foreman at [tamara.foreman@howard.edu](mailto:tamara.foreman@howard.edu) or 202-806-4212.

Preceptor evaluation should be completed by the student within a week of the completion of the rotation.

### **Grading Scale**

Students enrolled in the IPPE I will earn either a PASS, INCOMPLETE, or a FAIL grade.

A **PASS** grade will be assigned with the following four requirements met

- (1) Evaluation average of 4.0 or above**
- (2) Completion of 160 hours (excellent attendance)**
- (3) Approved portfolio assignments and**

**(4) Completed preceptor evaluation.**

An **INCOMPLETE** will be assigned if student obtains items (1) and (2) but (3) and (4) was not turned in by the deadline.

A **FAIL** will be assigned if student does not obtain items (1) and (2) and if **INCOMPLETE** is not resolved according to University Policy.