DOCTOR OF PHARMACY PROGRAM – CURRICULAR OUTCOMES
Approved November 22, 2016

Domain 1 – Foundational Knowledge

1.0. **Learner (Learner)** - Develop, integrate, and apply knowledge from the foundational sciences (i.e. biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and patient-centered care.

1.1. Develop and demonstrate depth and breadth of knowledge in the biomedical and pharmaceutical sciences.
   1.1.1. Describe and apply biochemistry, physiology and pathophysiology with respect to common disease processes and their management.
   1.1.2. Describe the molecular, chemical, and physical properties and the application of common pharmaceutical dosage forms.
   1.1.3. Identify and explain the molecular, chemical, and physical basis of drug/drug and drug/excipient incompatibilities.
   1.1.4. Describe and apply the knowledge of the molecular, chemical, biochemical, genomic, physiologic and pathophysiologic basis of drug action, interaction, and adverse effects for major categories of drugs.
   1.1.5. Describe and apply knowledge of the molecular, biochemical, and physiological basis of the drug absorption, distribution, metabolism, and excretion (ADME) process.

1.2. Develop and demonstrate depth and breadth of knowledge in the social, behavioral and administrative sciences. Such knowledge and abilities include but are not limited to the following:
   1.2.1. Describe and define health literacy, cultural competency, and psychosocial principles of health care and incorporate those principles into pharmacy practice and patient care plans.
   1.2.2. Describe and define the legal, ethical, social, economic, health policy, and professional standards of pharmacy practice and interprofessional collaboration and apply these standards to guide the practice of pharmacy.
   1.2.3. Develop and implement evidence-based programs based upon interpretation and analysis of pharmacoepidemiology, pharmacoeconomic, and medication-use data.
   1.2.4. Describe and define appropriate professional communication techniques and apply those techniques in documenting and relaying pharmacist patient care activities.
   1.2.5. Describe and define the research design, biostatistics, and drug information principles and apply those principles to locate, evaluate and use the scientific literature.
   1.2.6. Describe and apply the appropriate methods to prepare, dispense, distribute and administer prescriptions and medication orders in a manner that ensures safe and effective delivery of pharmacy services and medications to the patient.
   1.2.7. Describe and utilize the appropriate medication use systems, risk mitigation, adherence/compliance/persistence strategies, and quality improvement strategies to provide effective pharmacy services.

1.3. Develop and demonstrate depth and breadth of knowledge in the clinical sciences. Such knowledge and abilities include but are not limited to the following:
   1.3.1. Use information technology, including electronic health records, to retrieve and analyze data for use in individual and population patient care.
1.3.2. Describe basic pharmacokinetic and pharmacogenomics principles and apply those principles to determine the safe and effective doses of drugs for individual patients, and adjust therapy as appropriate.

1.3.3. Describe and apply the inter-relations and interactions among drug-drug, drug-disease, drug-food, and drug-laboratory test interactions to properly assess and manage common diseases and disorders.

1.3.4. Describe the general principles of pharmacotherapy, self-care and patient safety and apply those general principles in the development of individualized and population evidence-based care to manage common diseases and disorders.
Domain 2 – Essentials for Practice and Care

2.1. **Patient-centered care (Caregiver)** - Provide patient-centered care as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).
   2.1.1. Collect and interpret subjective and objective evidence related to patient characteristics, medications, allergies, adverse reactions, and diseases from chart/electronic health records, pharmacist records and patient and family interviews.
   2.1.2. Perform, interpret and document select components of a physical examination.
   2.1.3. Prioritize patient needs and formulate evidence-based care plans, including assessments, therapeutic goals, education and management recommendations, and monitoring plans.
   2.1.4. Implement, monitor, assess, adjust, document, and communicate individualized patient care plans.

2.2. **Medication use systems management (Manager)** - Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.
   2.2.1. Describe and participate in common medication use systems.
   2.2.2. Describe the role of the pharmacist in common medication use systems, including medication procurement, storage, prescribing, transcription, dispensing, administration, monitoring, and documentation.
   2.2.3. Identify and utilize resources and systems to optimize medication use systems.
   2.2.4. Apply standards, guidelines, best practices, and established processes related to safe and effective medication use and transitions of care.

2.3. **Health and wellness (Promoter)** - Design prevention, intervention, and educational strategies for individuals and communities to manage common disease and improve health and wellness.
   2.3.1. Evaluate personal, social, economic, and environmental conditions that impact community health and wellness.
   2.3.2. Describe systematic preventive care, including risk assessment, risk reduction, screening, health promotion and education, and immunization activities.
   2.3.3. Develop and implement prevention, intervention, and educational strategies for individuals and communities in order to improve health and wellness.
   2.3.4. Collaborate with interprofessional healthcare team members in the management and health promotion for patients.

   2.4.1. Describe, develop and provide evidence-based, medication-based care approaches that meet the healthcare needs of a targeted patient population.
   2.4.2. Assess population health medication-based care and provide potential solutions to optimize health outcomes.
Domain 3 - Approach to Practice and Care

3.1. **Problem Solving (Problem Solver)** – Design, implement, and evaluate a viable solution to identified problems through exploration and prioritization of strategies.

3.1.1. Collect and analyze pertinent information to identify and assess the major problems and likely causes of a problem or issue.

3.1.2. Develop, compare and contrast, and prioritize potential solutions and plans to address or resolve the problem.

3.1.3. Select, implement and monitor the most viable solution, including the measurement of intended and unintended consequences.

3.1.4. Evaluate the process and outcome of the solution for quality improvement.

3.2. **Educator ( Educator)** – Educate all audiences by determining the most effective and enduring techniques and strategies to impart information, achieve learning objectives, and assess understanding.

3.2.1. Determine the primary and secondary goals of the educational encounter.

3.2.2. Select and utilize pertinent, reputable resources of healthcare information that is relevant for the topic and the intended audience.

3.2.3. Design and deliver well-organized, pertinent and effective educational activities using appropriate materials and methods.

3.2.4. Coordinate educational efforts with other healthcare providers to ensure a consistent, comprehensive, and team-based encounter.

3.2.4. Develop methods to evaluate the educational process

3.3. **Patient Advocacy (Advocate)** - Assure that patients’ best interests are represented.

3.3.1. Provide patients with resources and assistance to take responsibility for their own healthcare and to navigate the healthcare system.

3.3.2. Develop individualized care plans that reflect the patient’s and caregiver’s concerns, desires and needs.

3.4. **Interprofessional collaboration (Collaborator)** – Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.

3.4.1. Define the roles and responsibilities for team members needed to optimize outcomes for specific patient care encounters.

3.4.2. Consult and collaborate with other healthcare professionals in a manner that promotes respect for others and shared responsibility, problem solving and decision making.

3.5. **Cultural sensitivity (Includer)** - Recognize social determinants of health to diminish disparities and inequities in access to quality care.

3.5.1. Demonstrate respect and regard for different cultures by considering their beliefs and practices into health and wellness care plans, while avoiding biases and stereotyping.

3.6. **Communication (Communicator)** – Clearly communicate when interacting with an individual, group, or organization.

3.6.1. Communicate, interview, and gather information from patients and healthcare professionals effectively and confidently.
3.6.2. Demonstrate effective interpersonal skills and empathy to establish rapport and build trusting relationships.

3.6.3. Assess a patient’s health literacy and modify communication strategies to meet the patient’s needs.
Domain 4 – Personal and Professional Development

4.1. **Self-awareness (Self-aware)** – Examine and reflect on personal and professional knowledge, skills, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.
   - 4.1.1. Identify, create, implement, evaluate and modify personal and professional goal setting and achievement plans for the purpose of individual growth.
   - 4.1.2. Identify personal and professional strengths and weaknesses in personal and professional abilities.
   - 4.1.3. Utilize needed resources to develop a plan to enhance and maintain personal and professional abilities.

4.2. **Leadership (Leader)** - Demonstrate responsibility for creating and achieving personal and shared goals, regardless of position.
   - 4.2.1. Describe leadership models and the characteristics of effective leadership.
   - 4.2.2. Identify and define personal and professional values.
   - 4.2.3. Perform activities that have a positive impact on others.

4.3. **Innovation and Entrepreneurship (Innovator)** - Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.
   - 4.3.1. Develop new ideas and approaches or enhance current approaches to improve the design and delivery of pharmacy services.
   - 4.3.2. Describe and define innovation and entrepreneurialism and provide examples of each that apply to the practice of pharmacy or health care.

4.4. **Professionalism (Professional)** - Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.
   - 4.4.1. Demonstrate respect, compassion, integrity, accountability, responsibility and dependability.
   - 4.4.2. Demonstrate personal and professional development through ongoing self-directed learning and self-reflection.
   - 4.4.3. Demonstrate a commitment to caring for and advocating for patients.
   - 4.4.4. Actively participate in continuous quality improvement of services, processes and products involved in the delivery of pharmacy and health care.