Rotation Ability-Based Outcomes:

CAPE Domain: FOUNDATIONAL KNOWLEDGE
- Describe pharmacokinetic and pharmacodynamic principles that must be considered when defining and modifying a dosage regimen in an individual patient
- Describe the pathophysiology and therapeutic principles required to solve therapeutic problems, provide patient-centered care, and advance population health
- Retrieve, analyze, and interpret scientific literature to provide drug information to patients, caregivers, and other healthcare providers
- Apply the tenets of professionalism and ethical behavior.

CAPE Domain: ESSENTIALS FOR PRACTICE AND CARE

Domain 2.1: Provide patient-centered care as the medication expert across the continuum of care (caregiver)
- Gather, organize, and interpret relevant patient specific data
- Identify pharmacotherapy problems
- Formulate and implement focused evidence-guided care plans, assessments, and recommendations based on individualized data
- Monitor treatment outcomes and modify therapeutic plan as needed

Domain 2.2: Manage patient health care needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems (manager)
- Comply with all legal, ethical, and professional standards
- Integrate technology, automation, and processes to improve medication use for the purposes of improving health outcomes for patients
- Promote efficient and cost-effective resource utilization
- Apply standards, guidelines, best practices, established processes and quality improvement strategies to optimize outcomes.
- Utilize medication-use criteria, medication use review and risk reduction strategies to minimize medication misadventures

Domain 2.3: Design prevention, intervention, and educational strategies for individuals and communities to manage chronic diseases and improve health and wellness (promoter):
- Evaluate personal, social, economic, and environmental conditions to maximize health and wellness

Domain 2.4: Describe how population-based care influences patient-centered care and the development of practice guidelines and evidence-based best practices (provider):
- Explain evidence-based approaches that consider the cost, care, access, and satisfaction of targeted patient populations (e.g., institutional or managed-care recommendations for how a drug should be used)

CAPE Domain: APPROACH TO PRACTICE AND CARE

Domain 3.1: Identify problems in practice or care; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution (problem solver)
- Identify problems related to practice or care, and systematically gather, analyze, and synthesize
information using available methods and research tools to explore possible solutions
• Organize, prioritize, and defend possible solutions and choose an appropriate course of action for a practice or care problem.
• Implement and monitor a solution and assess its effectiveness (intended and unintended consequences)

**Domain 3.2: Educate all audiences by determining the most effective and enduring ways to impart information and assess understanding (educator)**
• Select the most effective techniques/strategies to educate a given learner or audience
• Ensure instructional content contains the most current information relevant for the intended audience
• Assess audience comprehension

**Domain 3.3: Assure that patients’ best interests are represented (advocate)**
• Encourage patients to take responsibility for, and control of, their health
• Advocate for and assist patients in obtaining the resources and care required

**Domain 3.4: Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs (collaborator)**
• Communicate and collaborate effectively with patients/caregivers and other healthcare professionals to engender a team approach (interprofessional education)
• Use active listening, gather input/feedback, value diverse opinions, and foster collaboration to help build consensus and enhance team functioning.
• Demonstrate professional skills, attitudes, and values and a sense of personal responsibility to patients, patient’s agents, and other health care providers.

**Domain 3.5: Recognize social determinants of health to diminish disparities and inequities in access to quality care (includer)**
• Demonstrate an attitude that is respectful of different cultures (cultural sensitivity) and consider cultural beliefs and practices when developing health and wellness care plans
• Assess the health literacy of patients and modify communication strategies to meet their needs

**Domain 3.6: Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization (communicator, oral and written)**
• Interview patients using an organized, structured, specific question technique (e.g. motivational interviewing) with medical terminology adapted for the audience
• Use effective interpersonal skills (verbal and nonverbal communication) to establish rapport and demonstrate empathy
• Communicate assertively, persuasively, confidently, and clearly
• Document pharmaceutical care activities and associated outcomes

**CAPE Domain: DEMONSTRATE PERSONAL AND PROFESSIONAL DEVELOPMENT**

**Domain 4.1: Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth (self-aware)**
• Identify and reflect on personal knowledge, skills, abilities, beliefs, biases, motivations, and emotions
• Approach tasks with a desire to learn and demonstrate a willingness to recognize, correct, and learn from errors
• Create, implement, evaluate, and modify plans for personal and professional development for the purpose of individual growth

**Domain 4.4: Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society (professionalism)**
• Adopt personal and professional ethical principles that place the health and safety of patients above personal gain.
• Display preparation, initiative, and accountability consistent with a commitment to excellence.
Rotation Activities:

For each skill listed below, the goal is for each Inpatient Acute Care APPE student to achieve a level of competence consistent with entry into pharmacy practice.

Required Activities (Objectives):

- Conduct direct patient care services for individual patients on a daily basis
  - The student is assigned specific patient cases to evaluate and review on a daily basis by preceptor.
  - Student “rounds” on these patient cases daily, either by self, with preceptor, or with other members of the health care team.
  - Student collects and organizes all relevant data on the patient cases assigned.
  - Student is allowed appropriate time to evaluate data and develop self-synthesized problem list and evidence-based care plan, with problems prioritized.
  - Student presents cases to preceptor after both initial assessment as well as part of daily follow up.
  - Patients are monitored daily, with student adjusting care plans as needed.
  - Preceptor provides direction to stimulate student’s critical thinking regarding pharmacotherapy issues.
  - Student is assigned specific readings and research tasks on relevant clinical topics to be discussed with preceptor
  - Student is responsible for finding relevant literature, reading and assessing the studies and reporting these findings to the preceptor.
  - Student will verbally communicate drug therapy recommendations to the health care team after discussion and approval by preceptor.
  - Student will write chart notes for patient recommendations to be reviewed by preceptor. Preceptor will establish the format regarding length and content of notes.
  - Outcomes of student interventions will be documented by the student as a tool for both evaluative and educational purposes.

- Prepare and deliver at least one formal evidence-based presentation of at least 20 minutes duration, utilizing a written handout with references included.

- Prepare and deliver at least one formal journal club presentation of a primary literature article, including a handout.

- Discuss drug therapy issues with at least 3 patients, or a delegate/caregiver of that patient as assigned by preceptor.

- Serve as an advocate of pharmacy by identifying themselves to the health care team and patients/families.

- Conduct one project regarding a cost comparison of medications for a specific indication, using the institution-specific costs.
Practice in a legal and ethical manner, following the policies of the institution as well as the Public Health Code.

Role-model their preceptors’ endeavors to remain current on literature and to engage in newly developed standards of practice.