

PHARMACEUTICAL SCIENCES, BS

LEARNING OUTCOMES

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1. Drug properties: Apply knowledge of the physical, chemical, and pharmacologic, and formulation properties of drugs and influence on drug parameters (such as pharmacology, pharmacodynamics, stability, drug/dose delivery design). Differentiate among the therapeutic classes based on mechanisms of action, clinical use, adverse effects, contraindications, interactions, and dosage forms and regimens.
2. Patient-centered care: Use the pharmacist patient care process (PPCP) to employ personalized medicine and social, behavioral and other evidence-based principles to design and deliver individualized patient-care plans that optimize safety, efficacy, and medication used to improve therapeutic outcomes.
3. Drug kinetics: Design or modify treatment regimens including dose, schedule, and duration using patient-specific or population pharmacokinetic data, plasma concentration-time profile of drugs, and factors that alter them.
4. Pharmaceutical calculations and product processing: Ensure accurate and safe sterile and non-sterile compounding, calculation, labeling, and dispensing of medications.
5. Health equity and inclusion: Identify root causes of health disparities and incorporate principles of cultural and structural humility to promote access, inclusion, and equitable health outcomes.