Outcome Ability Goals

Pharm D. Outcome Ability Goals

Adopted by the College Faculty, May 11, 2016.

1. **Conceptual Competence and Scientific Comprehension.** The student must demonstrate comprehension of the theoretical and scientific foundations of the profession. The student will be able to integrate fundamental concepts from the pharmaceutical sciences, clinical sciences, social/behavioral sciences and economics and apply these to individual practice settings.

2. **Critical Thinking and Decision-Making.** The student must examine issues rationally and logically; shall acquire, evaluate, and synthesize information and knowledge relevant to an identified problem; and make logical, safe, and ethical decisions in both familiar and unfamiliar contexts.

3. **Communication Skills and Abilities.** The student must read, write, speak, listen, and use appropriate technologies to send and respond effectively to communications for varied audiences and purposes.

4. **Information Literacy.** The student must retrieve, analyze, and interpret the professional literature, critically evaluate the scientific credibility of information, utilize information technology and distribution systems that promote the safe use of medications, and provide evidence-based medication and health information to healthcare professionals and the public.

5. **Practice-Based Competency.** The student will develop a foundational set of skills and abilities to provide consistent and comprehensive patient-centered care to all individuals regardless of demographic characteristics, disease state or therapeutic requirements.

6. **Team-Based Competency.** The student will learn to collaborate and integrate effectively with pharmacists and other healthcare professionals to provide optimal health care services to patients.

7. **Leadership Skills and Abilities.** The student will acquire knowledge of leadership traits and skills through curricular and co-curricular activities and develop skills and abilities that will enable him/her to lead or actively contribute to organizational improvement.

8. **Professionalism and Ethics.** The student must demonstrate sensitivity to personal values and ethical principles in professional and social contexts.

9. **Cultural Competence and Social Awareness.** The student must demonstrate an understanding of self, the strengths and challenges of cultural diversity, and utilize culturally sensitive and effective skills in delivering patient-centered care.

10. **Population Health Management.** The student will promote health improvement, wellness and disease prevention by understanding and applying population-based data, processes and strategies to design individual and population-specific, evidence-based disease prevention and management programs.

11. **Self-Aware and Career Ready.** The student will apply his/her knowledge, skills and abilities by engaging in experiences and activities that challenge the student to systematically evaluate and continuous develop his/her abilities and goals in order to enter into and thrive in his/chosen career path.

B.S. in Pharmaceutical Sciences - Outcome Ability Goals

Approved by the faculty, February 19, 2010; reaffirmed May 2017; Amended April 2019
Program Learning Outcomes

Students of the Purdue University Bachelor of Science in Pharmaceutical Sciences program will be able to demonstrate:

1. **A broad knowledge of pharmaceutical and related sciences**
   The student will:
   - demonstrate a basic understanding of chemistry, biology, physics, and mathematics relevant to pharmaceutical sciences.
   - demonstrate an understanding of pharmaceutics, pharmacology, toxicology, medicinal chemistry, therapeutics, and pharmacokinetics.

2. **An understanding of drug discovery, development, and commercialization**
   The student will:
   - demonstrate a high-level understanding of the key stages in drug discovery, development, and commercialization.
   - relate applicable scientific disciplines to each stage of drug discovery, development, and commercialization.
   - identify the legal and regulatory issues that affect: a) development, b) conduct of research studies used in each phase of drug product development, and c) commercialization.
   - identify questions addressed by research studies used in each phase of drug product development, and the decision-makers who use this information.
   - synthesize this information to create a preliminary drug development research plan for all phases of a new compound's life cycle.
   - identify potential roles of BSPS graduates in drug discovery, development, and commercialization.

3. **Effective written and oral communication skills**
   The student will:
   - demonstrate proficiency in technical writing and presentations through individual and team-based classroom and practical experiences - using clear, concise logical progression of thought.
   - demonstrate knowledge and proficiency with audio-visual presentation technologies.
   - communicate scientific knowledge with colleagues, as well as non-experts in lay terms.
   - develop examples of scientific communications (e.g., abstract, manuscripts, reports, poster presentations).
   - critically and constructively evaluate the presentations of others.

4. **An ability to integrate and apply knowledge to solve problems**
   The student will:
   - solve technical problems by integrating multi-disciplinary scientific knowledge and interpersonal skills developed through individual and team classroom and project experiences. Includes issue identification, root cause analysis, solution development and use of statistical analysis.
   - develop interpersonal skills such as influencing others, negotiating and working with others, conflict management, and informal/formal leading of others through the problem solving process.

5. **An ability to contribute in various roles on effective teams**
   The student will:
   - demonstrate a road-map level understanding of the interconnection between the scientific, clinical, and filing processes that in parallel constitute the backbone of
6. **Ethical and socially responsible conduct**
   The student will:
   - demonstrate awareness of cultural and social diversity through interactions with others.
   - demonstrate a sense of self, community, and citizenship through ethical, socially responsible, and socially aware behaviors.
   - demonstrate sensitivity to personal values and ethical principles in professional and social contexts.
   - develop an understanding of social, economic, and professional responses to change in the pharmaceutical industry.

7. **Leadership skills**
   The student will:
   - successfully complete a selective course on leadership
   - meaningfully participate in curricular, co-curricular, and/or other University sponsored or outside student focused activities that promote the ability to lead or actively contribute to organizational improvement.