

Aging and Drug Use in the Elderly  
PHRD 5051  
CRN#42337

I. Contact Information

\* = preferred contact method

Course Coordinator

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Clinical Professor

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II. Course Prerequisites/Corequisites

PHRD 4027, PHRD 4029, PHRD 4035

III. Course Description

2 cr. An examination of normative and pathological aging and their effects on drug use and response in the aged population.

IV. Curricular Objectives and Outcomes

Domain 1 – Knowledge

1.1 Scientific thinking (Learner) – Seek, analyze, integrate, and apply foundational knowledge of medications and pharmacy practice (biomedical, pharmaceutical, social, behavioral, administrative; clinical sciences, drug classes, and digital health).

Domain 2 – Skills

2.1 Problem solving process (Problem solver) – Use problem solving and critical thinking skills, along with an innovative mindset, to address challenges and to promote positive change.

2.2 Communication (Communicator) – Actively engage, listen, and communicate verbally, nonverbally, and in writing when interacting with or educating an individual, group, or organization.

2.3 Cultural and structural humility (Ally) – Mitigate health disparities by considering, recognizing, and navigating cultural and structural factors (eg, social determinants of health, diversity, equity, inclusion, and accessibility) to improve access and health outcomes.

2.4 Person-centered care (Provider) – Provide whole person care to individuals as the medication specialist using the Pharmacists Patient Care Process.

2.5 Advocacy (Advocate) – Promote the best interests of patients and/or the pharmacy profession within health care settings and physical resources to improve the safety, efficacy, and

environmental impact of medication use systems.

Population Health and Wellness (Promoter) – Assess factors

## Domain 3 – Attitudes

- 3.1. Self-awareness (Self-aware) – Examine, reflect on, and address personal and professional attributes (eg, knowledge, metacognition, skills, abilities, beliefs, biases, motivation, help seeking strategies, and emotional intelligence that could enhance or limit growth, development, & professional identity formation).
- 3.2 Professionalism (Professional) – Exhibit attitudes and behaviors that embody a commitment to building and maintaining trust with patients, colleagues, other healthcare professionals, and society.

## V. ACPE Appendix 1 Required Elements

### Biomedical Sciences

- x Human Physiology – Homeostatic function and normal response reactions across the lifespan of non-diseased human cells, organs, and systems.
- x Pathology/Pathophysiology – Basic principles, mechanisms, functional changes and metabolic sequelae of human disease impacting cells, organs, and systems.

### Social/Administrative/Behavioral Sciences

- x Cultural Awareness – Exploration of the potential impact of cultural values, beliefs, and practices on patient care outcomes.
- x Pharmacoeconomics – Application of economic principles and theories to the provision of cost-effective pharmacy products and services that optimize patient care outcomes, particularly in situations where healthcare resources are limited.
- x Pharmacoepidemiology – Cause and effect patterns of health and disease in large populations that advance safe and effective drug use and positive care outcomes within those populations.
- x Professional Communication – Analysis and practice of verbal, non-verbal, and written communication strategies that promote effective interpersonal dialog and understanding to advance specific patient care, education, advocacy and/or interprofessional collaboration goals.
- x Professional Development/Social and Behavioral Aspects of Practice – Development of professional self-awareness, capabilities, responsibilities and leadership.

### Clinical Sciences

- x Clinical Pharmacokinetics – Application of basic pharmacokinetic principles and mathematical models to calculate safe and effective doses of drugs for individual patients, and adjust therapy as appropriate through the monitoring of drug concentration.
- x Patient Assessment – Evaluation of patient function and dysfunction through the performance of tests and assessments leading to objective (e.g., physical assessment, health screening and lab data interpretation) and subjective (patient interview) data important to the provision of care.
- x Patient Safety – Analysis of the systems and human associated causes of medication errors, exploration of strategies designed to reduce/eliminate them, and evaluation of available and evolving error reporting mechanisms.
- x Pharmacotherapy – Evidence-based clinical decision making, therapeutic treatment planning, and medication therapy management strategy development for patients with specific diseases and conditions that complicate care and/or put patients at high risk for adverse events. Emphasis on patient safety, clinical efficacy, pharmacogenomic and pharmacoeconomic considerations, and treatment of patients across the lifespan.
- x Self-Care Pharmacotherapy – Therapeutic needs assessment including the need for triage to other health professionals, drug product recommendation/selection, diagnosis, prescribing, and counseling of patients re: treatment

VI. Course Specific Objectives and Outcomes  
At the conclusion

how

### C. Make up Policy

Each student is expected to attend each exam/graded exercise at the date

In this course, misuse of AI consists of failing to cite information provided

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XI. Tentative Course Schedule (\*subject to change at the discretion of the Course Coordinator)

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Schedule:

Class Meeting Time: Wednesday 8:00 – 4:50

Class Meeting Place: Bienville 110

Class	Topic
1	Course Orientation/ Senior Care Pharmacy
2	Aging Simulation
3	Principles of Aging
5	Communicating with Older Adults
6	Enhancing Medication Adherence
7	Mid-Term Case Exercise
8	Aging & Mental Health
9	Medication Related Problems/ Inappropriate Medication Use in Older Adults
10	