

DOCTOR OF PHARMACY: REQUIRED COURSES IN P1-P4

Changes in red made Spring 2018

BIOLOGICAL SCIENCES: 17 REQUIRED CREDITS

PSC 311 Biochemistry (3)
PSC 312 Molecular Biology (3)
PSC 315 Immunology (3)
PSC 321; PSC 322 Physiology/Pathophysiology I and II (4,4)
PSC 369 Molecular Foundations of Drug Action (3)

PHARMACEUTICAL SCIENCES: 15 REQUIRED CREDITS

PSC 341; PSC 342 Pharmaceutics I and II (3,3)
PTP 401 Principles of Pharmacology and Medicinal Chemistry Module (2)
PSC 441 Pharmacokinetics (3)

CLINICAL SCIENCES AND PHARMACY PRACTICE: 52 REQUIRED CREDITS

PHM 318 Foundations of Pharmacy (1)
IPS 301, 302, 401, 402, 501, 502 Integrated Problem-Solving Workshops I-VI (7 credits total)
PHM 329 Self-care & Over-the-Counter Medicines (3)
PTP 410, 425, 431, 440, 446, ~~514, 519~~, **515**, 525, 528, 549 Pathophysiology, Therapeutics, Pharmacology, and Medicinal Chemistry modules (24 credits total)
PSL 331, 332, 431, 432, 531, 532 Pharmacy Skills I-VI (11 credits total)
PHD 410 Drug Information and Biostatistics (2)
PSC 451 Scientific Literature Evaluation (1)
PAD 510 or PAD 511 Jurisprudence (3)
PHM 911 Orientation to Advanced Pharmacy Practice Experiences (0)

ADMINISTRATIVE AND SOCIAL SCIENCES: 9 REQUIRED CREDITS

PAD 451 US and Global Healthcare Systems (3)
PAD 515 Pharmacoeconomics and Health Policy (3)
PAD 521 Pharmacy Administration (3)

HUMANITIES, CULTURE HEALTH, AND ETHICS: 3 REQUIRED CREDITS

ETH 510 Healthcare and Human Values (3)

EXPERIENTIAL EDUCATION: 50 CREDITS

CLK 804 Community Pharmacy Introductory Pharmacy Practice Experience (3)
CLK 806 Health and Wellness Introductory Pharmacy Practice Experience (1)
CLK 803 Team Based Care Introductory Pharmacy Practice Experience (1)
CLK 807 Institutional Pharmacy Introductory Pharmacy Practice Experience (3)
CLK 811+ Advanced Pharmacy Practice Experiences (42 credits total)

ELECTIVE CREDIT GRADUATION REQUIREMENTS:

Total of ~~21~~ 18 elective credits required to graduate

- Minimum of 6 credits must be designated as Professional Elective Credit and taken during the PharmD program years (P1-P3)
- Minimum of 9 credits must be designated as Liberal Arts Elective Credit*

*Some professional electives may also satisfy the Liberal Arts Elective Credit designation.

TOTAL CREDITS: 167 CREDITS

DOCTOR OF PHARMACY PROGRAM OUTCOMES

DOMAIN 1 – FOUNDATIONAL KNOWLEDGE

1.1. Learner (LEARNER) - Develop, integrate, and apply knowledge from the foundational sciences (i.e., *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*.

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).

2.2. 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.

2.3. Health and wellness (PROMOTER) - Design prevention, intervention, and educational strategies for individuals and communities to manage chronic disease and improve health and wellness.

2.4. Population-based care (PROVIDER) - Describe how *population-based care* influences *patient centered care* and influences the development of practice guidelines and evidence-based best practices.

DOMAIN 3 - APPROACH TO PRACTICE AND CARE

3.1. Problem Solving (PROBLEM SOLVER) – Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.

3.2. Educator (EDUCATOR) – Educate all audiences by determining the most effective and enduring ways to impart information and assess understanding.

3.3. Patient Advocacy (ADVOCATE) - Assure that patients' best interests are represented.

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.

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

3.6. Communication (COMMUNICATOR) – Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization.

DOMAIN 4 – PERSONAL AND PROFESSIONAL DEVELOPMENT

4.1. Self-awareness (SELF-AWARE) – Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.

4.2. Leadership (LEADER) - Demonstrate responsibility for creating and achieving shared goals, regardless of position.

4.3. Innovation and Entrepreneurship (INNOVATOR) - Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.

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.

INTERPROFESSIONAL EDUCATION

Pharmacists are integral members of the healthcare team. As such, an important aspect of student pharmacists' education includes Interprofessional education, which has been defined as occurring when students of two or more health professions learn from, with and about each other. The School of Pharmacy and Pharmaceutical Sciences of ACPHS has adopted the following Vision and Mission statements for Interprofessional Education.

Vision: ACPHS will graduate pharmacists who actively collaborate with other health professionals to provide and promote patient-centered care.

Mission: The mission of IPE at ACPHS is to provide every student multiple opportunities to learn about, from and with other health professions. Through these experiences, students will develop competencies approved by the PCC, in each of the four recognized IPE domains. Through local and regional affiliations, our students and faculty will provide leadership to build stronger healthcare teams and thus improve the care of their patients.

DOCTOR OF PHARMACY PROFESSIONAL CURRICULAR GRID

| Professional Year 1 (P1) | | | | | |
|--------------------------|---------------------------------------|---------|-----------------|---|---------|
| Fall Semester | | Credits | Spring Semester | | Credits |
| PSC 341 | Pharmaceutics I | 3 | PSC 342 | Pharmaceutics II | 3 |
| PSC 321 | Physiology/Pathophysiology I | 4 | PSC 322 | Physiology/Pathophysiology II | 4 |
| CHE 311 or PSC 311 | Biochemistry | 3 | PSC 312 | Molecular Biology | 3 |
| PSC 315 | Immunology | 3 | PHM 329 | Self Care/OTC | 3 |
| PHM 318 | Foundations of Pharmacy | 1 | PSL 332 | Pharmacy Skills II | 2 |
| PSL 331 | Pharmacy Skills I | 2 | IPS 302 | Integrated Problem Solving Workshop II | 1 |
| IPS 301 | Integrated Problem Solving Workshop I | 1 | PSC 369 | Molecular Foundations of Drug Action I | 3 |
| | Total | 17 | | Total | 19 |

Introductory Pharmacy Practice Experience - Summer after P1 year

CLK 804 Community (3 credits)

CLK 806 Health and Wellness (1 credit)

| Professional Year 2 (P2) | | | | | |
|--------------------------|---|---------|-----------------|---|---------|
| Fall Semester | | Credits | Spring Semester | | Credits |
| PTP 401 | Principles of Pharmacology and Medicinal Chemistry | 2 | PTP 425 | PTP&M – Endocrine | 2 |
| PSC 441 | Pharmacokinetics | 3 | PTP 431 | PTP&M – GI/Nutrition | 2 |
| PTP 440 | PTP&M – Cardiovascular | 4 | PTP 446 | PTP&M – Infectious Disease | 4 |
| PTP 410 | PTP&M – Respiratory Disease | 1 | PAD 451 | US and Global Health Care Systems | 3 |
| PHD 410 | Drug Information/Biostatistics | 2 | IPS 402 | Integrated Problem Solving Workshop IV | 1 |
| IPS 401 | Integrated Problem Solving Workshop III | 1 | PSL 432 | Pharmacy Skills IV | 2 |
| PSL 431 | Pharmacy Skills III | 2 | PSC 451 | Scientific Literature Evaluation ^b | 1 |
| PSC 451 | Scientific Literature Evaluation ^b | 1 | | Professional Elective ^a | 3 |
| | Professional Elective ^a | 3 | | | |
| | Total | 15-19 | | Total | 14-18 |

Introductory Pharmacy Practice Experience - Summer after P2 year

CLK 807 Institutional (3 credits)

CLK 803 Team Based Care (1 credit)

| Professional Year 3 (P3) | | | | | |
|--------------------------|---------------------------------------|-----------|-----------------------|--|---------|
| Fall Semester | | Credits | Spring Semester | | Credits |
| PTP 525 | PTP&M – Nephrology/Toxicology | 2 | PTP 515 | PTP&M Rheumatology/Oncology | 3 |
| PTP 528 | PTP&M – Genitourinary | 2 | PAD 510 or PAD 511 | Jurisprudence | 3 |
| PTP 549 | PTP&M – Neurology/Psychology | 4 | ETH 510 | Health Care and Human Values | 3 |
| IPS 501 | Integrated Problem Solving Workshop V | 1 | PAD 521 | Pharmacy Administration | 3 |
| PAD 515 | Pharmacoeconomics and Health Policy | 3 | IPS 502 | Integrated Problem Solving Workshop VI | 2 |
| PSL 531 | Pharmacy Skills V | 2 | PSL 532 | Pharmacy Skills VI | 1 |
| PHM 911 | Orientation to APPE | No credit | | Professional Elective ^a | 3 |
| | Professional Elective ^a | 3 | | | |
| | Total | 14-17 | | Total | 15-18 |

| Professional Year 4 (P4) Advanced Pharmacy Practice Experiences (42 credits) - Summer, Fall and Spring Semesters | | |
|---|-------------------------------|----|
| CLK 929 | Community Core Rotation | 6 |
| CLK 843 or CLK 930 | Institutional Core Rotation | 6 |
| CLK 812 – CLK 999 | Inpatient Core Rotation | 6 |
| CLK 812 – CLK 999 | Ambulatory Care Core Rotation | 6 |
| | Flexible Core Rotation | 6 |
| | Elective | 6 |
| | Elective | 6 |
| | Total | 42 |

PTPM – Pathophysiology, Therapeutics, Pharmacology, and Medicinal Chemistry

^a Professional electives can be taken any semester

^b Students take once in the fall or spring

Updated January 2018