

For purposes of articulation agreement with Glenville State University

Year 1

Fall

Spring

| <i>Course</i> | <i>Credits</i> | <i>Course</i> | <i>Credits</i> |
|--|----------------|---|----------------|
| PALM 301: Principles of Human Anatomy | 3 | PHAR 810: Community Pharmacy Practice | 2 |
| PSIO 541: Integrative Physiology | 4 | PHAR 811: Foundational Pharmacy Skills | 1 |
| PHAR 800: Introduction to Pharmacy | 4 | PHAR 812: Drug Chemistry | 2 |
| PHAR 801: Drug Delivery | 5 | PHAR 813: Biopharmaceutics and Pharmacogenomics | 4 |
| PHAR 802: Preparation of Pharmaceutical Products | 1 | PHAR 814: Biochemical Pharmacology | 4 |
| PHAR 807: Pharmacy Calculations | 1 | PHAR 815: Self-Care | 3 |
| PHAR 703: Pharmacy Practice Experience 1 | 1 | PHAR 817: Principles of Immunology and Microbiology | 2 |
| | | PHAR 710: Pharmacy Practice Experience 2 | 1 |
| Total Credits | 19 | Total Credits | 19 |

Courses and Course Catalog Descriptions:

Fall Year 1 Curriculum:

PALM 301. Principles of Human Anatomy. 3 Hours.

PR: Admission to WVU's dental hygiene, nursing, or pharmacy program or consent. Lectures and demonstrations on the gross and microscopic anatomy of the human body including development. Pre-requisite(s) and/or co-requisite(s) may differ on regional campuses.

PSIO 541. Integrative Physiology. 4 Hours.

PR: First professional year standing in the School of Pharmacy. A systematic examination of the homeostatic functions of the human body with emphasis on the physicochemical mechanisms involved. Pathophysiology and clinical correlations related to pharmacy are introduced in relation to normal physiology.

PHAR 800. Introduction to Pharmacy. 4 Hours.

PR: First professional year standing or consent. Introduces students to the profession and practice of pharmacy. Students will gain an understanding of the history of pharmacy, the role of pharmacists in the US healthcare system, and the foundations of pharmacy law. Students develop hands-on skills in patient communication and drug information retrieval.

PHAR 801. Drug Delivery. 5 Hours.

An introduction to the concepts and techniques involved in the design and evaluation of pharmaceutical dosage forms, principles of physical pharmacy and drug delivery, and their applications in patient care.

PHAR 802. Preparation of Pharmaceutical Products. 1 Hour.

Preparation of sterile and non-sterile dosage forms. Students will apply the principles of pharmaceuticals to the preparation of pharmaceutical products.

PHAR 807. Pharmacy Calculations. 1 Hour.

Gain experience in pharmaceutical calculations that reflect activities in a variety of practice settings.

PHAR 703. Pharmacy Practice Experience 1. 1 Hour.

PR: First professional year standing or consent. Introduces student to the practice of pharmacy with a focus on career exploration. Pharmacy Practice Experience (PPE) 1 is the first course in a sequence that introduces students to the roles of pharmacists in a variety of practice settings. Interprofessional education (IPE) is introduced and emphasized throughout the course.

Spring Year 1 Curriculum:**PHAR 810. Community Pharmacy Practice. 2 Hours.**

PR: First professional year standing or consent. Focuses on the various roles of a pharmacist including the prescription dispensing and medication management processes in the community pharmacy setting. Legal aspects of community pharmacy practice are also discussed.

PHAR 811. Foundational Pharmacy Skills. 1 Hour.

PR: First professional year standing or consent. Provide students with foundational skills necessary for the provision of patient care including physical assessment, point of care testing, and oral and written communication. Many skills learned during this course will be further strengthened throughout pharmacy school.

PHAR 812. Drug Chemistry. 3 Hours.

PR: First professional year standing or consent. Introduces principles of chemical stability and chemical properties as they relate to drugs and to the basic metabolic processes observed for drug molecules.

PHAR 813. Biopharmaceutics and Pharmacogenomics. 4 Hours.

PR: First professional year standing or consent. Develops an understanding of fundamental principles of biopharmaceutics and pharmacogenomics.

PHAR 814. Biochemical Pharmacology. 4 Hours.

PR: First professional year standing or consent. Provides a basis for understanding the biochemical and molecular mechanisms by which drugs and the body interact. This course will use drug classes to introduce foundational concepts of drug action and the application of pharmacological tools to better understand how drugs work in the body.

PHAR 815. Self-Care. 3 Hours.

PR: First professional year standing or consent. Provides an introduction to nonprescription medications and the application to patient care. Learners will assess the patient, make appropriate recommendations, and educate the patient on self-care treatment options for commonly encountered disease states and patient complaints.

PHAR 817. Principles of Immunology and Microbiology. 2 Hours.

PR: First professional year standing or consent. Introduces scientific principles of immunology as well as introduces students to the pharmacist's role as vaccination advocate, and provides the knowledge and skills required to safely administer vaccines. Lastly, it provides an introduction to microbiology and mechanisms of action of antibiotics.

PHAR 710. Pharmacy Practice Experience 2. 1 Hour.

PR: [PHAR 703](#) or consent. Introduces student to the practice of pharmacy with a focus on career exploration. Pharmacy Practice Experience (PPE) 2 is the second course in a sequence that introduces students to the roles of pharmacists in a variety of practice settings. Interprofessional education (IPE) is introduced and emphasized throughout the course.