

# Pharmacy (PHAR)

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## Courses

### ***PHAR 4499 Experimental Course: 1-6 semester hours.***

The content of this course is not described in the catalog. Title and number of credits are announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. Letter Graded. May be repeated.

### ***PHAR 9905 Pharmacy Problem-Based Learning Foundations: 2 semester hours.***

An introduction to the problem-based learning series that intentionally develops core skills to apply the Pharmacists' Patient Care Process and promote self-directed learning through simulated patient and practice scenarios that provide longitudinal application of previously and newly acquired knowledge, skills and professionalism. PREREQ: First professional year. S

### ***PHAR 9906 Pharmacy Problem-Based Learning I: 2 semester hours.***

The problem-based learning series intentionally develops core skills to apply the Pharmacists' Patient Care Process and promote self-directed learning through simulated patient and practice scenarios that provide longitudinal application of previously and newly acquired knowledge, skills, and professionalism. PREREQ: Second professional year. F

### ***PHAR 9907 Pharmacy Problem-Based Learning II: 2 semester hours.***

The problem-based learning series intentionally develops core skills to apply the Pharmacists' Patient Care Process and promote self-directed learning through simulated patient and practice scenarios that provide longitudinal application of previously and newly acquired knowledge, skills, and professionalism. PREREQ: PHAR 9906. S

### ***PHAR 9908 Pharmacy Problem-Based Learning III: 2 semester hours.***

The problem-based learning series intentionally develops core skills to apply the Pharmacists' Patient Care Process and promote self-directed learning through simulated patient and practice scenarios that provide longitudinal application of previously and newly acquired knowledge, skills, and professionalism. PREREQ: PHAR 9907. F

### ***PHAR 9910 First Year Recitation: 0 semester hours.***

Scheduled time to attend professional seminars, course reviews and exams. May be repeated. Graded S/U. COREQ: First Professional Year. D

### ***PHAR 9911 Foundations of Interprofessional and Experiential Education: 1 semester hour.***

Self-paced foundational learning and training for the Doctor of Pharmacy program. Letter Graded. D

### ***PHAR 9912 Introductory Pharmacy Practice Experience I: 1 semester hour.***

Competency-based experiential training and voluntary service in approved pharmacy practice settings. Letter Graded. D

### ***PHAR 9913 Introductory Pharmacy Practice Experience II: 1 semester hour.***

Competency-based experiential training and voluntary service in approved pharmacy practice settings. Letter Graded. D

### ***PHAR 9914 Introductory Pharmacy Practice Experience III: 1 semester hour.***

Competency-based experiential training and voluntary service in approved pharmacy practice settings. Letter Graded. D

### ***PHAR 9920 Second Year Recitation: 0 semester hours.***

Scheduled time to attend professional seminars, course reviews and exams. May be repeated. Graded S/U. COREQ: Second Professional Year. D

### ***PHAR 9921 Biological Basis of Drug Actions: 4 semester hours.***

Basic concepts in pharmacology. Letter Graded. PREREQ: First professional year. F

### ***PHAR 9922 Introduction to Pharmacotherapy: 5 semester hours.***

An introduction to the therapeutic management of selected disease states with an emphasis on patient education. PREREQ: First professional year. S

### ***PHAR 9923 Professional Development I: 0 semester hours.***

This course will provide a forum to demonstrate and document progressive achievement of desired program competencies throughout the didactic curriculum and introductory practice experiences. Student self-assessment and reflection on educational outcomes will be emphasized. Graded S/U. PREREQ: First professional year. S

### ***PHAR 9924 Physicochemical Basis of Drug Action: 3 semester hours.***

Concepts of physical and chemical properties of drugs and how these properties affect absorption, distribution, metabolism, excretion, and pharmacological actions. Letter Graded. PREREQ: First professional year. F

### ***PHAR 9926 Basic Pharmacokinetics and Calculations: 4 semester hours.***

This course explores the fundamental principles of physical pharmacy, the mathematics associated with drug dispensing and compounding, and the pharmacokinetic principles related to ADME processes, the design and customization of therapeutic dosage regimens, and dosage individualization. Letter Graded. COREQ: PHAR 9926R. S

### ***PHAR 9926R Basic Pharmacokinetics and Calculations Recitation: 0 semester hours.***

Recitation for PHAR 9926. Graded S/U. COREQ: PHAR 9926. S

### ***PHAR 9927 Dosage Form Design and Compounding with Lab: 4 semester hours.***

Principles, processes and techniques applied to design of therapeutic systems, including preparation, use and assessment of pharmaceutical dosage forms. Includes three hours of laboratory each week. Letter Graded. PREREQ: PHAR 9926. F

### ***PHAR 9927L Dosage Form Design and Compounding Lab: 0 semester hours.***

Principles, processes and techniques applied to design of therapeutic systems, including preparation, use and assessment of pharmaceutical dosage forms. Graded S/U. COREQ: PHAR 9927. S

### ***PHAR 9930 Third Year Recitation: 0 semester hours.***

Scheduled time to attend professional seminars, course reviews and exams. May be repeated. Graded S/U. COREQ: Third Professional Year. D

### ***PHAR 9931 Health Care I: 3 semester hours.***

Health care systems, social and behavioral aspects of pharmacy practice, and management. Letter Graded. PREREQ: First professional year. F, S, Su

### ***PHAR 9933 Professional Development II: 0 semester hours.***

This course will provide a forum to demonstrate and document progressive achievement of desired program competencies throughout the didactic curriculum and introductory practice experiences. Student self-assessment and reflection on educational outcomes will be emphasized. Graded S/U. PREREQ: Second professional year. S

### ***PHAR 9941 Introduction to Pharmacy Practice with Lab: 4 semester hours.***

Introduction and socialization to the pharmacy profession. A general overview of the health care system, the role of pharmacy in health care, pharmacy law, experimental design, analysis, and career pathways within the profession. Letter Graded. PREREQ: First professional year. F

### ***PHAR 9942 Fundamentals of Study Design and Literature Evaluation in Pharmacy: 3 semester hours.***

Fundamentals of study design and statistics used in literature evaluation and evidence-based pharmacy practice. PREREQ: PHAR 9941. S

**PHAR 9943 Professional Development III: 1 semester hour.**

This course will provide a forum to demonstrate and document progressive achievement of desired program competencies throughout the didactic curriculum and introductory practice experiences. Student self-assessment and reflection on educational outcomes will be emphasized. Graded S/U. PREREQ: Third professional year. S

**PHAR 9944 Health Care II with Lab: 4 semester hours.**

Health care systems, social and behavioral aspects of pharmacy practice, and management. Letter Graded. PREREQ: Fourth professional year. F, S, Su

**PHAR 9944L Health Care II Lab: 0 semester hours.**

Communication skills, multicultural awareness, and application of quality assurance methods. Application of principles of pharmacoeconomic and humanistic outcomes research to the evaluation of patient-centered care and the marketing and delivery of medication therapy management. Graded S/U. F, S, Su

**PHAR 9945 Health Care III with Lab: 4 semester hours.**

Health care systems, social and behavioral aspects of pharmacy practice, and management. Letter Graded. PREREQ: Third professional year. F, S, Su

**PHAR 9948 Pharmacy Law: 2 semester hours.**

The study of federal and state statutes, regulations and court decisions which control the practice of pharmacy and drug distribution. Letter Graded. PREREQ: Third professional year. S

**PHAR 9949 Human Physiology I: 4 semester hours.**

Macro and microphysiology of human body systems. PREREQ: First professional year. F

**PHAR 9949R Human Physiology I Recitation: 0 semester hours.**

Recitation for PHAR 9949. Graded S/U. F

**PHAR 9956 Human Physiology II: 4 semester hours.**

Macro and microphysiology of human body systems. PREREQ: First professional year, PHAR 9949. S

**PHAR 9956R Human Physiology II Recitation: 0 semester hours.**

Recitation for PHAR 9956. Graded S/U. S

**PHAR 9961 Pharmacotherapy I with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on the appropriate selection/monitoring of drug therapy and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9962 Pharmacotherapy II with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9963 Pharmacotherapy III with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9964 Pharmacotherapy IV with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9965 Pharmacotherapy V with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9966 Pharmacotherapy VI with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Second professional year. D

**PHAR 9967 Pharmacotherapy VII with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Third professional year. D

**PHAR 9968 Pharmacotherapy VIII with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Third professional year. D

**PHAR 9969 Pharmacotherapy IX with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring, and patient counseling. Letter Graded. PREREQ: Third professional year. D

**PHAR 9970 Pharmacotherapy X with Lab: 2-5 semester hours.**

An organ-system approach to the therapeutic management of selected disease states with an emphasis on appropriate drug selection, therapeutic drug monitoring and patient counseling. Letter Graded. PREREQ: Third professional year. D

**PHAR 9971 Capstone Pharmacy and Pharmacy Problem-Based Learning IV: 2-5 semester hours.**

Selective review of the pharmacy curriculum with emphasis on the optimization of complex pharmacotherapy regimens, medication therapy management, and therapeutic issues surrounding common disease states. Includes small group discussions, journal clubs, self-directed learning and interactive teaching methods. Letter Graded. PREREQ: Third professional year. D

**PHAR 9971R Capstone Pharmacy and Pharmacy Problem-Based Learning IV: 0 semester hours.**

Recitation for PHAR 9971 Capstone Pharmacy and Pharmacy Problem-Based Learning IV. Graded S/U. PREREQ: Third professional year. D

**PHAR 9981 Advanced Pharmacy Practice Experience: 7 semester hours.**

Students are assigned to pharmacy practice sites including community, institutional, and clinical settings for experiential training. Requires reflection and presentation of cases for discussion. May be repeated up to 7 times. S/U Graded. PREREQ: Fourth professional year status. F, S, Su

**PHAR 9982 Pharmacy Information Mastery I: 1 semester hour.**

This course focuses on the application and re-enforcement of principles taught previously in the Doctor of Pharmacy program and emphasizes lifelong learning as students prepare to move from the classroom into practice. Su

**PHAR 9983 Pharmacy Information Mastery II: 1 semester hour.**

This course focuses on the application and re-enforcement of principles taught previously in the Doctor of Pharmacy program and emphasizes lifelong learning as students prepare to move from the classroom into practice. PREREQ: Fourth professional year. F

**PHAR 9984 Pharmacy Information Mastery III: 1 semester hour.**

This course focuses on the application and re-enforcement of principles taught previously in the Doctor of Pharmacy program and emphasizes lifelong learning as students prepare to move from the classroom into practice. PREREQ: Fourth professional year. S