

Pharmacy PharmD (PHM)

PHM 310K Drugs in Our Society 3 Hours

Survey of drug development, distribution, and safety, including therapeutic categories of drugs, their actions and abuse potential, and the sociological aspects of drug use.

PHM 311K Take your Medicine: Developing New Drug Products 3 Hours

Explores the process, challenges, and issues in developing pharmaceutical products. An overview of drug development, approval, and consumer issues will be presented and discussed in the context of research practices, consumers, science, marketing, public welfare, and innovative practices.

PHM 119S, 219S, 319S, 419S, 519S, 619S, 719S, 819S, 919S Topics in Pharmacy PharmD 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the College of Pharmacy. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

PHM 129S, 229S, 329S, 429S, 529S, 629S, 729S, 829S, 929S Topics in Pharmacy PharmD 1-9 Hours

This course is used to record credit the student earns while enrolled at another institution in a program administered by the University's Study Abroad Office. Credit is recorded as assigned by the study abroad adviser in the College of Pharmacy. University credit is awarded for work in an exchange program; it may be counted as coursework taken in residence. Transfer credit is awarded for work in an affiliated studies program.

PHM 338 Introduction to Pharmacology 3 Hours

Survey of basic concepts and principles in pharmacology.

PHM 350K Drugs in Our Society 3 Hours

Survey of drug development, distribution, and safety, including therapeutic categories of drugs, their actions and abuse potential, and the sociological aspects of drug use. Essay papers required.

PHM 160J, 260J, 360J Basic Study in Pharmaceutical Research for Nonmajors 1-3 Hours

Original investigation in any area of the pharmaceutical sciences.

PHM 160R, 260R, 360R Topics in Pharmaceutical Sciences for Nonmajors 1-3 Hours

Explore any basic area of the pharmaceutical and clinical sciences.

PHM 180 Pharmacotherapeutics of Vaccine-Preventable Diseases 1 Hour

Examine the administration of safe and accurate immunization services to patients that will promote disease prevention and public health. Explore the national immunization standards through the Centers for Disease Control and Prevention.

PHM 380C, 480C Human Normal Physiology/Pathophysiology and Basics in Pharmacology I 3-4 Hours

Integrated approach consisting of normal physiology (with limited functional anatomy), pathophysiology, and basic principles in pharmacology to address the etiology of disease states affecting the nervous, gastrointestinal, visual/olfactory, skin, muscular, and cardiovascular systems.

PHM 380D, 480D Human Normal Physiology/Pathophysiology II 3-4 Hours

Integrated approach consisting of normal physiology (with limited functional anatomy), pathophysiology, and basic principles in pharmacology to address the etiology of disease states affecting the blood/immune system, renal, pulmonary, endocrine, and metabolic systems. Also includes multi-systemic diseases related to infectious disease and cancer.

PHM 380E Reaching our World 3 Hours

Explore global cultures through study of people, food, healthcare, economy, religions, and diversity of culture with a focus on comparing healthcare systems in different countries. Examine obstacles to healthcare and other daily challenges faced by societies and cultural groups. Utilize independent reflection and team-based learning to explore barriers faced by a cultural group in a third world country and create a final presentation.

PHM 280H Landmark Studies in Cardiovascular Disease 2 Hours

Evidence-based clinical studies in support of drug therapy recommendations in the treatment of cardiovascular diseases.

PHM 280J Theory and Practice of Teaching in Pharmacy Education 2 Hours

Explore teaching concepts, processes, and theories related to pharmacy education. Combine theory and practice to create a teaching portfolio.

PHM 180K Medicinal Chemistry Principles 1 Hour

Introduction to medicinal chemistry principles. Subjects include drug metabolism and the transition from organic to medicinal chemistry.

PHM 280L, 380L Landmark Pharmacotherapy Studies in Primary Care 2-3 Hours

Reviewing, evaluating, and applying the results of landmark studies in pharmacotherapy to primary care practice. An examination of disease states encountered in primary care including diabetes, hypertension, dyslipidemias, and psychological disorders.

PHM 280M Introduction to Marketing in Pharmacy 2 Hours

Explore tools and resources used to enhance marketing, communication, and branding strategies. Relate these tools to career advancement in the field of pharmacy.

PHM 180P Basic Pharmaceutical Sciences Laboratory 1 Hour

Laboratory exercises to support the basic pharmaceutical sciences courses.

PHM 180Q Pharmaceutical Industry Fellowship Preparation 1 Hour

Explore pharmaceutical industry fellowships and review skills needed for competitive fellowship applications.

PHM 180R, 280R, 380R Basic Study in Pharmaceutical Research 1-3 Hours

Basic exploration in any area of the pharmaceutical sciences.

PHM 180S Tools to Enhance Academic Success 1 Hour

Investigate tools and resources available for enhancing academic success in the professional pharmacy curriculum.

PHM 180T, 280T, 380T Global Health 1-3 Hours

An exploration of health care issues outside the United States with an inside look at different cultures and healthcare systems to enhance global awareness and cultural competence in the practice of pharmacy.

PHM 280W Psychiatric Pharmacy Practice and Drug Treatment of Mental Disorders 2 Hours

Advanced study in the pathophysiology of selected psychiatric disease states and the clinical presentation, phenomenology, diagnosis, and treatment of these disease states.

PHM 181 Pharmacotherapeutics of the Renal and Autonomic Systems 1 Hour

An integrated approach to the etiology and treatment of disease states of the renal and autonomic systems.

PHM 281E Introductory Spanish for the Pharmacy Professional 2 Hours

Develop foundational skills for communicating with Spanish-speaking patients within pharmacy practice settings, including basic medication instruction use. Explore the pitfalls of online translators/apps and etiquette for using a medical translator. Discuss disparities in care for patients with limited English proficiency and other topics applicable to a pharmacy practice environment. Designed for students with little-to-no Spanish-speaking experience.

PHM 281J Theory and Practice of Assessment in Pharmacy Education 2 Hours

Explore current assessment concepts related to pharmacy education and apply those concepts to create an assessment portfolio.

PHM 381K Pharmaceutical Marketing 3 Hours

Concepts of marketing as they apply to the pharmaceutical industry, pharmaceutical products, and the health care environment.

PHM 381M Pharmaceutical Biochemistry I 3 Hours

Basic principles of intermediary metabolism, with emphasis on defects in pathways that result in disease and on identification of molecular targets for therapeutic control.

PHM 281N Pharmaceutical Biochemistry II 2 Hours

The biosynthesis and function of macromolecules (nucleic acids, lipids, proteins, and carbohydrates); sites of drug action, immunology, and applications of biotechnology and molecular biology to the pharmaceutical sciences.

PHM 181Q Introduction to Pharmaceutical Industry 1 Hour

Explore potential careers for pharmacists in the pharmaceutical industry.

PHM 181R Research Opportunities in the Pharmaceutical Sciences 1 Hour

An introduction to research in all divisions of the College of Pharmacy. Includes ethical issues in research, career paths in research, and subjects such as choosing a research mentor or project.

PHM 181S, 281S Foundations of Professional Development I 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars and team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 181T, 281T Foundations of Professional Development II 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars, team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 181V Pharmacy Practice Lab I 1 Hour

Navigate the pharmacists' patient care process in preparation for Introductory and Advanced Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess, plan, implement and follow-up on patients at an introductory level.

PHM 081W PharmD Year 1 Administrative Session I 0 Hours

Co-curricular and supplemental material for students in the first year of the Pharmacy (PharmD) program.

PHM 182 Pharmacotherapeutics of the Respiratory System 1 Hour

An integrated approach to the etiology and treatment of disease states of the respiratory system.

PHM 282E Nonprescription Pharmacotherapeutics and Self-Care I 2 Hours

Study of nonprescription products and complementary and alternative medicine as it relates to the patient's ability to care for themselves with emphasis on the pharmacist's consultant role in product selection and nonpharmacologic recommendations.

PHM 182F, 282F Nonprescription Pharmacotherapeutics and Self-Care II 1-2 Hours

A continuation of Pharmacy PharmD 282E. The study of nonprescription products and complementary and alternative medicine as it relates to the patient's ability to care for themselves with emphasis on the pharmacist's consultant role in product selection and non-pharmacologic recommendations.

PHM 282G Pharmacy Business Plan Development 2 Hours

The fundamentals of writing a pharmacy business plan, including the mission statement, objectives, description of products and services, legal structure, location analysis, layout and design, pro forma financial statements, staffing, market analysis and strategies, and promotion and advertising plans, culminating in submission of the plan for national competition.

PHM 182I Nonprescription Pharmacotherapeutics and Self-Care:

Introductory Pharmacy Practice Experience 1 Hour

Participate in a hands-on experience in a community pharmacy setting related to the pharmacist's consultant role in nonprescription product selection (including complementary and alternative medicine) and non-pharmacologic recommendations in self-care.

PHM 382K Experimental Design and Research Methods in Health Care 3 Hours

Concepts and procedures involved in designing and completing a research project.

PHM 382L Clinical Toxicology 3 Hours

A course in toxicology that focuses on common poisons and their management; designed for pharmacy students planning to enter general practice.

PHM 182M, 282M, 382M Interprofessional Approach to Integrative Medicine 1-3 Hours

Explore an overview of the fundamentals of integrative medicine, including Traditional Chinese Medicine (TCM). Examine an interprofessional perspective of the interview and assessment of patients and the clinical reasoning used to develop patient care plans.

PHM 182P Nonprescription Pharmacotherapeutics and Self Care II Laboratory 1 Hour

Laboratory practice related to the pharmacist's consultant role in nonprescription product selection (including complementary and alternative medicine) and non-pharmacologic recommendations in self-care; includes fieldwork in a community pharmacy.

PHM 182R, 282R, 382R Topics in the Pharmaceutical Sciences 1-3 Hours

Basic exploration in any area of the pharmaceutical and clinical sciences.

PHM 182S, 282S Foundations of Professional Development III 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars, team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 182T, 282T Foundations of Professional Development IV 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars, team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 182V Pharmacy Practice Lab II 1 Hour

Navigate the pharmacists' patient care process in preparation for Introductory Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess, plan, implement and follow-up on patients at an advanced introductory level.

PHM 082W PharmD Year 1 Administrative Session II 0 Hours

Co-curricular and supplemental material for students in the first year of the Pharmacy (PharmD) program.

PHM 383, 483 Pharmacotherapeutics of the Cardiovascular System 3-4 Hours

An integrated approach to the etiology and treatment of disease states of the cardiovascular system.

PHM 383E Development of Interprofessional Education for Collaborative Practice 3 Hours

A collaboration between students in pharmacy, nursing, social work, and medicine in the development of educational modules addressing interprofessional education in collaborative practice relating to error disclosure, service learning, healthcare quality improvement. Preprofessional introduction to interprofessional education competencies.

PHM 183F Basic Intravenous Admixtures 1 Hour

Basic principles of injectable and other sterile dosage forms; methods of preparation and evaluation that meet current pharmacy practice standards.

PHM 183G Basic Intravenous Admixtures Laboratory 1 Hour

Basic laboratory principles in the preparation and evaluation of injectable and other sterile dosage forms.

PHM 383I Institutional Introductory Pharmacy Practice Experience 3 Hours

Participate in a hands-on experience at an institutional practice care facility; examine pharmacy services, hospital pharmacy management, staff interaction, and the flow of information from pharmacy to bedside.

PHM 383K New Concepts, Topics, and Issues in Pharmacy Practice 3 Hours

PHM 283L Health Behavior and Health Outcomes 2 Hours

Explore the concepts and principles of health behavior and health outcomes in a multicultural U.S. population.

PHM 383M Health Innovation Entrepreneurship 3 Hours

Explore a highly interactive and interdisciplinary approach for developing health innovation, including drug product, devices, and digital health solutions. Examine foundational entrepreneurial and innovation concepts for identifying and developing ideas, performing market validation, conducting customer discovery, assessing competition, and identifying skills for effectively working in teams.

PHM 183R, 283R, 383R Advanced Study in Pharmaceutical Research 1-3 Hours

PHM 183S, 283S Foundations of Professional Development V 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars, team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 183T, 283T Foundations of Professional Development VI 1-2 Hours

In-depth education and training to promote personal and professional development of students. Built on six interdependent pillars: Self-Awareness, Professionalism, Leadership, Career Development and Planning, Contemporary Issues in Practice, and Interprofessional Collaborative Practice (ICP). Employs a series of seminars, team-based workshops, and interprofessional learning experiences to inculcate students into the College of Pharmacy and profession of pharmacy. Focuses on self-awareness, professionalism, leadership development, career planning and decision-making, contemporary issues in pharmacy practice, and interprofessional collaboration.

PHM 283U Multidisciplinary Pain Management 2 Hours

Problem-based instruction to help health professions students acquire knowledge and skills in the care of patients with acute and chronic pain. Taught by faculty members in medicine, pharmacy, and nursing.

PHM 183V Pharmacy Practice Lab III 1 Hour

Navigate the pharmacists' patient care process in preparation for Introductory Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess, plan, implement and follow-up on patients at an intermediate level.

PHM 083W PharmD Year 2 Administrative Session I 0 Hours

Co-curricular and supplemental material for students in the second year of the Pharmacy (PharmD) program.

PHM 184 Pharmacotherapeutics of the Gastrointestinal System and Nutrition 1 Hour

An integrated approach to the etiology and treatment of disease states of the gastrointestinal system. Also includes nutrition.

PHM 384D Antimicrobics: Mechanism of Action and Clinical Use 3 Hours

Mechanisms of antimicrobial activity and the development of bacterial resistance, and their relationship to clinical therapy.

PHM 284E, 384E Pharmacy Law 2-3 Hours

State and federal pharmacy laws.

PHM 184H Antimicrobics: Advanced Inquiry 1 Hour
Designed to give students additional insight, beyond Pharmacy PharmD 384D, into the development of antimicrobial agents and the interactions of these agents with each other, the pathogen, and the patient. Students explore a self-selected topic for research and presentation.

PHM 284I, 384I Community Introductory Pharmacy Practice Experience 2-3 Hours
Participate in a hands-on experience in a community pharmacy setting. Explore medication therapy management training, the development of patient care plans, the ability to develop and conduct a public health project, carry out patient exercises, and complete prescription management activities such as patient counseling.

PHM 384K Community Pharmacy Management 3 Hours
Advanced concepts in community pharmacy management for the student who plans to become a pharmacy owner or manager. Covers operational, personnel, and financial management; marketing; layout and design; and the delivery of pharmaceutical care in a community pharmacy setting.

PHM 384L Pharmacy and the Health Care System 3 Hours
The health care system in the United States; principles of managed care; application of pricing policies; and an overview of pharmacy services.

PHM 184M, 284M Pharmacy Professional Communications 1-2 Hours
Professional communication skills in interacting with patients and other health care professionals.

PHM 284S Quality and Patient Safety Interprofessional Education 2 Hours
Concepts of patient safety and quality improvement. Current and past quality improvement projects are used to demonstrate the model of clinical safety and effectiveness. Reducing and preventing medical errors using the TeamSTEPPS approach; working in interprofessional teams on a quality improvement project.

PHM 184V Pharmacy Practice Lab IV 1 Hour
Navigate the pharmacists' patient care process in preparation for Introductory Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess plan, implement and follow-up on patients at an advanced intermediate level.

PHM 084W PharmD Year 2 Administrative Session II 0 Hours
Co-curricular and supplemental material for students in the second year of the Pharmacy (PharmD) program.

PHM 185 Pharmacotherapeutics of Diabetes 1 Hour
An integrated approach to the etiology and treatment of diabetes.

PHM 185I Ambulatory Introductory Pharmacy Practice Experience 1 Hour
Participate in a hands-on experience in an ambulatory pharmacy setting. Work on patient care plans, review and evaluate patient medication lists, identify goals for common chronic disease states, utilize formularies in making drug therapy decisions, and assess appropriate resources to respond to drug information questions in an ambulatory setting.

PHM 385K Applied Pharmacy Management 3 Hours
Examination and application of principles of pharmacy management, with emphasis on human resource management. Subjects include interviewing and selection techniques, assessing job performance, improving the work environment, leadership skills, management skills, managing medication errors, and quality improvement of pharmacy services.

PHM 285M Patient-Centered Diabetes Care 2 Hours
Explore a practice-based approach to the non-pharmacologic and pharmacologic management of diabetes in multiple pharmacy practice settings.

PHM 185N Biomedical and Professional Ethics 1 Hour
Explore biomedical and professional ethics and the implications and challenges for pharmacy practice. Examine core principles and theories in biomedical and professional ethics including the pharmacy code of ethics and codes of ethics for other healthcare practitioners.

PHM 185V Pharmacy Practice Lab V 1 Hour
Navigate the pharmacists' patient care process in preparation for Introductory Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess plan, implement and follow-up on patients at an advanced level.

PHM 085W PharmD Year 3 Administrative Session I 0 Hours
Co-curricular and supplemental material for students in the third year of the Pharmacy (PharmD) program.

PHM 486 Pharmacotherapeutics of Infectious Diseases 4 Hours
An integrated approach to the etiology and treatment of infectious disease.

PHM 186E, 286E Careers in Academic Pharmacy 1-2 Hours
Examine pharmacy education with a focus on the three pillars of academia: teaching, service, and scholarship.

PHM 386G Spanish for the Pharmacy Professional 3 Hours
Intermediate communication skills in Spanish.

PHM 386H Institutional Clinical Skills 3 Hours
Hands-on experience in an institutional practice care facility; examines pharmacy services, hospital pharmacy management, staff interaction, and the flow of information from pharmacy to bedside.

PHM 186I Contemporary Pharmacy Practice Introduction to Pharmacy Practice Experience I 1 Hour
Participate in a hands-on experience in a contemporary pharmacy setting.

PHM 386K Pharmacy Association Management 3 Hours
An introduction to the principles involved in managing pharmacy associations. Students gain practical experience in a community pharmacy.

PHM 186M Advanced Oncology 1 Hour
Review supportive care and symptom management for oncology patients, cancer types and treatments. Examine clinical trials, new cancer types, and palliative care/end-of-life. Discuss and debate clinical controversies in oncology treatment.

PHM 186Q Experiential Pharmacy Practice and Patient Counseling 1 Hour
Medication use and dispensing in a practice environment. Counseling skills and techniques for a better understanding of disease states and positive medication outcomes.

PHM 286R Advanced Contemporary Compounding 2 Hours
The art and science of compounding pharmaceutical preparations to develop an advanced understanding of formulation, stability, and quality standards of compounded pharmaceuticals. Focuses on pharmaceutical elegance; developing professional judgement based on limited data to assess the stability and efficacy of a compound before dispensing the preparation; the regulations governing compounding, including those outlined by the United States Pharmacopeial Convention, the Pharmacy Compounding Accreditation Board, and other scientific and professional organizations; mechanisms for evaluation and analysis of the quality of a compounded formulation; and marketing and promotion of compounding services.

PHM 186S Advanced Contemporary Compounding Laboratory 1 Hour
Advanced compounding methods with respect to pharmaceutical dosage forms and formulations, with emphasis placed on creating formulations that satisfy unique patient needs, and a discussion of equipment used by compounding pharmacists to formulate preparations that satisfy those needs. Pharmacy PharmD 186S builds upon compounding skills taught in Pharmacy PharmD 188P.

PHM 186V Pharmacy Practice Lab VI 1 Hour
Navigate the pharmacists' patient care process in preparation for Introductory Pharmacy Practice Experiences. Utilize critical-thinking, problem-solving and communication skills to collect, assess, plan, implement and follow-up on patients.

PHM 086W PharmD Year 3 Administrative Session II 0 Hours
Co-curricular and supplemental material for students in the third year of the Pharmacy (PharmD) program.

PHM 187 Pharmacotherapeutics of the Endocrine System 1 Hour
An integrated approach to the etiology and treatment of disease states of the endocrine system.

PHM 187E, 287E Emotions, Ethics, and Empathy 1-2 Hours
Explore emotions, ethics, and what it means to be an empathetic pharmacist.

PHM 187F Foundations of Patient-Centered Care I 1 Hour
Explore a broad overview of the pharmacist's role in patient-centered care through lectures, simulations, activities, and writing assignments.

PHM 187G Foundations of Patient-Centered Care II 1 Hour
Continue to explore a broad overview of the pharmacist's role in patient-centered care through lectures, simulations, activities, and writing assignments.

PHM 287H, 387H Community Care Clinical Skills 2-3 Hours
Clinical work in a community-based pharmacy practice setting. Includes medication therapy management training, participation in the development of patient care plans, the ability to develop and conduct a public health project, carry out patient exercises, and complete prescription management activities such as patient counseling.

PHM 187I Contemporary Pharmacy Practice Introduction to Pharmacy Practice Experience II 1 Hour
Participate in continued hands-on experience in a contemporary pharmacy setting.

PHM 187J, 287J, 387J Advanced Problems in Pharmacy Education 1-3 Hours
Laboratory course examining professional education issues and techniques for students exploring an academic career.

PHM 687K Pharmacy Association Management Residency 6 Hours
Experience working in a pharmacy association, including active involvement in some managerial aspect of the association.

PHM 387M Physical and Chemical Principles of Drugs 3 Hours
Fundamental, introductory principles of pharmaceuticals, including thermodynamics, kinetics, and other basic chemical principles related to drugs.

PHM 287N Biopharmaceutics 2 Hours
Complements the basic pharmaceuticals principles covered in Pharmacy PharmD 387M. Subjects include core concepts in biopharmaceutics of drugs.

PHM 187R Exploratory Research in Pharmacy 1 Hour
The student participates in ongoing in-depth research activities in pharmaceuticals, medicinal chemistry, toxicology, pharmacology, pharmacy administration, pharmacy practice, or pharmacotherapy.

PHM 288 Pharmacotherapeutics of Oncology and Transplant 2 Hours
An integrated approach to the etiology and treatment of disease states related to oncology and transplants.

PHM 288E Clinical Drug Development: Regulatory Perspectives 2 Hours
Explore the regulatory affairs involved in the review, submission, and design of clinical trials for compounds being considered for Food and Drug Administration approval.

PHM 288G Dialogue Across Difference 2 Hours
Develop framework, terminology, and critical thinking and empathy tools for engaging in productive conversations around difficult topics. Explore both differences and commonalities across and within social identities, dialogue about issues pertaining to systems of oppression and enhance intercultural competencies. Examine the meaning of social identities and how they intersect, influence and/or are influenced by others.

PHM 288H Pharmacy Honors Proposal and Tutorial Course 2 Hours
Honors seminar; development of laboratory research proposal for approval by the Honors Program Committee.

PHM 188K, 288K, 388K Hospital Pharmacy 1-3 Hours
Basic principles, standards, and procedures involved in providing professional pharmaceutical services in hospitals.

PHM 388M Pharmaceutics 3 Hours
General introduction to dosage forms, and the technology and pharmaceutical rationale fundamental to their development.

PHM 188P Pharmaceutics Laboratory 1 Hour
Laboratory course supporting the subjects discussed in Pharmacy PharmD 388M.

PHM 189 Pharmacotherapeutics of the Reproductive System 1 Hour
An integrated approach to the etiology and treatment of disease states related to reproductive health.

PHM 389E Modern Trends in Drug Design 3 Hours
Examine drug metabolism, pharmacogenomics, mechanisms of drug action, and approaches used in modern drug discovery and development.

PHM 489H Pharmacy Honors Thesis and Tutorial Course 4 Hours
Honors seminar; laboratory research project conducted under the supervision of one or more faculty members.

PHM 389K Social Media and Consumer Healthcare 3 Hours
An exploration of how social media is transforming healthcare and improving patient outcomes.

PHM 389M Fundamentals of Health Innovations 3 Hours
Explore foundational innovation and entrepreneurship concepts related to the process of developing novel drug therapies, medical devices, diagnostics, and digital health products and services.

PHM 189S, 289S, 389S Community Service Learning 1-3 Hours
Community-based participatory projects designed to connect coursework and community service experiences. Past and present health issues specific to the Texas region (such as United States-Mexico border issues), national and regional health initiatives, service challenges and opportunities, as well as personal/professional identities and responsibilities to the community. Projects developed in consultation with a faculty mentor and a selected community site. Includes an academic service-learning component.

PHM 190 Pharmacotherapeutics of Dermatology and Inflammatory Processes 1 Hour
An integrated approach to the etiology and treatment of disease states of the dermis. Includes inflammatory responses.

PHM 390C Communication Skills for Health Professionals 3 Hours
Designed for pharmacy, pre-pharmacy, premedical, pre-dental, and nursing students. Enhancement of verbal communication skills for professional and public presentations, patient consultations, and interviewing.

PHM 290D Nutritional Aspects of Clinical Pharmacy 2 Hours
Explores the interrelationships of nutrition, disease, and drug therapy, including aspects of both normal and clinical nutrition, nutritional deficiencies, and the metabolic consequences or diseases associated with malnutrition. Patient case studies examine both the effects of drug therapy on nutrition and the effects of nutrition on drug therapy. Disease states covered include cardiovascular disease, diabetes, hepatic and renal failure, and anemia.

PHM 390E Controlled Substances: Violations, Investigations, and Enforcement 3 Hours
Explore violations of federal and state-controlled substances laws and rules, and analyze the pharmacist's role in enforcement.

PHM 290H Pharmacy Research Honors Proposal 2 Hours
Write a research proposal and conduct a research project under the supervision of one or more faculty members.

PHM 390K Clinical Management of Drug-Drug Interactions 3 Hours
Group discussions with an emphasis on clinically relevant drug-drug interactions, mechanisms, significance, and clinical management.

PHM 290L Introduction to Nuclear Pharmacy 2 Hours
An overview of nuclear pharmacy, a recognized specialty area of pharmacy practice focusing on the compounding and dispensing of radioactive materials for use in nuclear medicine procedures (therapeutic, diagnostic, and imaging).

PHM 290M Inpatient Adult Medicine 2 Hours
Clinical therapeutic management of adult patients in an inpatient, institutional (primarily hospital) setting.

PHM 390N Integrated Basic and Applied Pharmacokinetics 3 Hours
Introduction to pharmacokinetic principles; and the application of principles to specific drugs and patient situations.

PHM 390S Interprofessional Community Service Learning 3 Hours
Integration of community service with contemporary pharmacy practice, with a focus on social justice and social determinants of health care.

PHM 390T Pharmacy International Exchange 3 Hours
Work in an exchange program with international colleges and schools of pharmacy as partners. Examination of similarities and differences between pharmacy education, professional practice, and/or research in the hosting country and in the United States.

PHM 390V Patient Safety 3 Hours
Covers methods to ensure patient safety, prevent misadventures, and develop policy associated with patient safety and misadventure prevention.

PHM 290W Health Leadership 2 Hours
Develops skills necessary to identify and establish professional goals, build and lead teams, delegate effectively, resolve conflicts, network for career advancement, document leadership experiences/abilities on curriculum vitae and in recommendation letters, and demonstrate leadership abilities during job interviews.

PHM 291 Pharmacotherapeutics of Pain and Addiction 2 Hours
An integrated approach to the etiology and treatment of disease states related to pain and addiction.

PHM 291H Pharmacy Research Honors Report 2 Hours
Continue to conduct a research project and complete a laboratory research report under the supervision of one or more faculty members.

PHM 291K Pediatric Pharmacotherapy 2 Hours
Pathophysiology and pharmacotherapy of selected pediatric diseases. Designed to expose students to pediatric pharmacy as a potential area of focus, and to prepare them for a potential residency or practice in providing pharmaceutical care in a pediatric setting.

PHM 191L Leadership in Community Service Learning 1 Hour
Designed for students enrolled in Pharmacy PharmD 193U who elect to serve in a leadership role for the community service-learning project. Coordinate and organize responsibilities at each phase of the project, communicate with community partners, and additional outreach based on the needs of the community partner. Develop a plan and disseminate the project outcomes.

PHM 291M Introduction to Ambulatory Care Pharmacy 2 Hours
Clinical and non-clinical topics relevant to treating commonly encountered disease states, effectively communicating with patients, and managing a clinical pharmacy practice in an ambulatory setting. Emphasis on application of concepts learned in previous classes to real-world situations.

PHM 191U Foundations for Interprofessional Collaborative Practice I 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 191V Foundations for Interprofessional Collaborative Practice II 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 391W Leadership and Advocacy in Pharmacy 3 Hours
A discussion forum for exploring current legislative and regulatory issues influencing the pharmacy profession. Focuses on retrieving legislative and regulatory information, interpreting legislation, regulations and their potential impacts, engaging in discussion on various perspectives of the issues and presenting information on legislation and regulations that impact pharmacy practice.

PHM 292 Pharmacotherapeutics of Psychiatric Disorders 2 Hours
An integrated approach to the etiology and treatment of disease states related to psychiatrics.

PHM 292G, 392G Herbal and Botanical Supplements 2-3 Hours
A practice-based approach to learning about the most common herbal and botanical supplements in a pharmacy practice setting, including review of studies of popular uses, clinical indications, pharmacological effects, mechanisms of action, side effects, contraindications, and common dosage guidelines. Discussion of the legal, regulatory, and ethical aspects, in addition to analyzing manufacturing quality issues and counterfeit products is also addressed.

PHM 292H Pharmacy Research Honors Project 2 Hours
Continue to conduct a research project and complete a review of a research article, under the supervision of one or more faculty members.

PHM 192L Leadership in Community Service Learning II 1 Hour
Designed for students enrolled in Pharmacy PharmD 193V who elect to serve in a leadership role for the community service-learning project. Coordinate and organize responsibilities at each phase of the project, communicate with community partners, and additional outreach based on the needs of the community partner. Develop a plan and disseminate the project outcomes.

PHM 192M, 292M, 392M Introduction to Specialty Pharmacy Practice 1-3 Hours
Explore the basic principles, standards, and procedures involved in providing professional pharmaceutical services in a specialty pharmacy.

PHM 192U Foundations for Interprofessional Collaborative Practice III 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 192V Foundations for Interprofessional Collaborative Practice IV 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 193 Pharmacotherapeutics of Neurologic Disorders 1 Hour
An integrated approach to the etiology and treatment of disease states related to neurology.

PHM 693C Ambulatory Care Pharmacy Practice 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in the context of ambulatory patient care.

PHM 693E Elective in Pharmacy Practice I 6 Hours
Experience in pharmacy practice, research, or administration.

PHM 393F Pharmacoeconomics and Pharmacy Management 3 Hours
Explore the terms, concepts, procedures, methods, problems, and strengths associated with pharmacoeconomics. Examine and utilize health information resources to manage medication use and minimize medication errors. Evaluate information regarding the financial status of the pharmacy and implications of the decisions faced by managers in reaching financial goals for the pharmacy.

PHM 293H Pharmacy Research Honors Thesis 2 Hours
Conduct a research project and write an honors thesis under the supervision of one or more faculty members.

PHM 193M Pharmacy Residency Preparation 1 Hour
Explore pharmacy residency and the skills needed to be competitive residency applicants.

PHM 693N Advanced Hospital Pharmacy Practice 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, synthesis of rational drug regimens, and dispensing of medications in the context of institutional patient care.

PHM 693P Advanced Community Pharmacy Practice 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, synthesis of rational drug regimens, and dispensing of medications in the context of community-based patient care.

PHM 693R Supplemental Rotation in Pharmacy Practice I 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in the context of patient care.

PHM 693S Selective in Pharmacy Practice I 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in a selected pharmacy practice environment.

PHM 193U Foundations for Interprofessional Collaborative Practice V 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 193V Foundations for Interprofessional Collaborative Practice VI 1 Hour
Introduces and reinforces interprofessional education core competencies delivered through classroom-based interactive sessions, simulations, field-based immersive experiences, and experiential learning with students and members of other professions. Imparts the foundational knowledge and skills necessary for the delivery of quality and safe patient-centered and population-oriented care as a contributing member of a healthcare team.

PHM 693W Elective International Pharmacy Experience 6 Hours
Competitive placement for an international advanced pharmacy experience.

PHM 194 Pharmacotherapy of Viral and Fungal Infections 1 Hour
Explore an integrated approach to the etiology and treatment of viral and fungal infections.

PHM 694C Inpatient General Medicine Pharmacy Practice 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in the context of acute patient care.

PHM 694E Elective in Pharmacy Practice II 6 Hours
Experience in pharmacy practice, research, or administration.

PHM 394F Pharmacoeconomics 3 Hours
Terms, concepts, procedures, methods, problems, and strengths associated with pharmacoeconomics.

PHM 394M Veterinary Pharmacotherapy 3 Hours
Explore veterinary medicine from a pharmacist's perspective.

PHM 694R Supplemental Rotation in Pharmacy Practice II 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in the context of patient care.

PHM 694S Selective in Pharmacy Practice II 6 Hours
Analysis of pharmacotherapy, evaluation of drug use, and synthesis of rational drug regimens in selected pharmacy practice environments.

PHM 395 Pharmacotherapy of Bacterial Infections 3 Hours
Explore an integrated approach to the etiology and treatment of viral and fungal infections.

PHM 695E Elective in Pharmacy Practice III 6 Hours
Experience in pharmacy practice, research, or administration.

PHM 195P Drug Information and Evidence-Based Practice Laboratory 1 Hour
Practical application of the concepts presented in Pharmacy 195Q. Includes assignments, projects, and oral presentations.

PHM 195Q, 295Q Drug Information and Evidence-Based Practice 1-2 Hours
Knowledge and skills needed to retrieve and interpret drug information. Interpretation of biomedical literature and an introduction to concepts of evidence-based practice.

PHM 295R Advanced Evidence-Based Practice 2 Hours
Research methodology and biostatistical concepts as they relate to the interpretation and critical evaluation of biomedical literature. Designed to build upon the material covered in Pharmacy PharmD 295Q.

PHM 398T College Teaching Methodology 3 Hours

Interdisciplinary course intended to provide a foundation of theoretical and practical knowledge relating to teaching at the postsecondary level. Subjects include instructional methods, instructional design, practice teaching, teaching philosophy, instructional technology, and assessment of learning. Includes class discussions and individual consultations.