PHARMACY (PHAR)

PHAR 041G — Professionalism Portfolio I
0 credits
In-Person

PHAR 042G — Professionalism Portfolio II
0 credits
In-Person

PHAR 043G — Professionalism Portfolio III
0 credits
In-Person

PHAR 109G — Personal and Professional Development I
This is the first course in the professional practice sequence that covers performance and affective domains that address the student's skill sets and personal and professional development throughout the curriculum. The purpose of this introductory course is to provide students with a conceptual framework for professionalism The purpose of this course is to provide the educational activities that foster professional growth of students as well as stimulate the development of professional attitudes, behaviors, dispositions and an understanding of the opportunities within the pharmacy profession.
1 credits
In-Person, Lecture

PHAR 110G — Anatomy Physiology and Pathophysiology I
This course is the first of a three course sequence that covers human anatomy, physiology and pathophysiology. This course, in combination with the Anatomy Laboratory, presents human anatomy from a structure and function foundation. The discussion of basic cellular structure and cell function will be followed by study of the gross anatomy of the human body using the system approach. Anatomical structure and function will be discussed with particular attention to those components most important for the practicing pharmacist. The systems covered are the nervous, muscular, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive systems.
4 credits
In-Person, Lecture

PHAR 115G — Anatomy Physiology and Pathophysiology II
As the second in the two-course sequence that covers human anatomy, physiology and pathophysiology, this course continues with the discussion of the anatomy, physiology and pathophysiology of the gastrointestinal, neurological, integumentary, endocrine and reproductive systems. An emphasis is placed throughout the course on understanding normal physiological processes and how disease perturbs such processes. Commonly used clinical laboratory values, and their application to diagnosis and monitoring of disease, are introduced as appropriate
4 credits
In-Person, Lecture

PHAR 117G — Principles of Drug Action I
This is the first course in the sequence which focuses on principles of medicinal chemistry and drug development. This course covers functional groups, acid and base theory, solubility, drug binding interactions, stereochemistry, drug metabolism, SAR and drug design.
2 credits
In-Person, Lecture

PHAR 118G — Integrated Case Studies I
This is a three course series in the first professional year designed to engage students in course related activities. This is the first in course series consisting of activities designed to bring relevance to concepts presented in the classroom from 4 courses: Anatomy, Physiology & Pathophysiology; Biochemistry with Clinical Correlations; Biostatistics; and Principles of Drug Actions, I. This course includes but not limited to assigning interactive sessions leading to active learning, critical thinking and problem solving. It could include breakout room activity such as practice problems sessions/workshops, course related cases/vignettes, short quizzes, essay type assignments, reading recitations, reflections, projects, and material/exam reviews. The experience should continue the transition from courses instruction to the application or practice phase of pharmacy.
1 credits
In-Person, Lecture

PHAR 120G — Pharmacy Practice I: Foundations in Therapeutics and Clinical Reasoning
Pharmacy Practice I–Foundations in Therapeutics and Clinical Reasoning improves the student pharmacist skill making decisions for patients. The course introduces students to clinical reasoning and decision-making skills in analyzing data to formulate a patient specific assessment and patient-care plan. Students will learn a systemic process of clinical decision-making applied to pharmacy practice, data interpretation, and pharmaceutical care documentation. This course is composed of four domains: 1) Social and behavioral aspects of pharmacy practice; 2) Pharmaceutical Care as the professional practice for patient-centered management; 3) Pharmacists' Patient Care Process (PPCP) and 4) Critical Thinking, Problem-Solving, Clinical Reasoning, and Clinical Decision- Making to optimize patient care outcomes.
2 credits
In-Person, Lecture

PHAR 122G — Integrated Case Studies II
This is the second course in a three course series in the first professional year designed to engage students in course related activities. This is the second in course series consisting of activities designed to bring relevance to concepts presented in the classroom from Anatomy, Physiology & Pathophysiology II and Pharmaceutics. This course includes but is not limited to assigning interactive sessions leading to active learning, critical thinking and problem solving. It could include breakout room activity such as practice problem sessions/workshops, course related cases/vignettes, short quizzes, essay type assignments, reading recitations, reflections, projects, and material/exam reviews. The experience should continue the transition from courses instruction to the application or practice phase of pharmacy
1 credits
In-Person, Lecture

PHAR 132G — Integrated Case Studies III
This is the third course in a course series in the first professional year designed to engage students in course related activities. This is the third in course series consisting of activities designed to bring relevance to concepts presented in the classroom from Principles of Drug Action II and Biopharmaceutics. This course includes but is not limited to assigning interactive sessions leading to active learning, critical thinking and problem solving. It could include breakout room activity such as practice problem sessions/workshops, course related cases/vignettes, short quizzes, essay type assignments, reading recitations, reflections, projects, and material/exam reviews. The experience should continue the transition from courses instruction to the application or practice phase of pharmacy.
1 credits
In-Person

PHAR 133G — Health Information Retrieval & Informatics
This course prepares students to acquire and develop both the knowledge and skills to retrieve healthcare related information. Students receive a review of drug information resources, background questioning and search strategy, with an emphasis on specialty references and databases. The students will also receive an introduction to the concepts of informatics.
1 credits
In-Person

PHAR 134G — Biostatistics
Basic statistical concepts important to the practice of pharmacy and medicine will be introduced. Students will be exposed to basic descriptive statistics related to presentation, organization, and summarization of data. The course will also cover basic research design.
2 credits
In-Person, Lecture

PHAR 137G — Principles of Drug Actions II
This is the second course in the sequence that teaches the pharmacology, and medicinal chemistry of medicinal agents. The integrated nature of this course emphasizes the interrelationship of these areas that is vital to understanding the basis of patient centered pharmaceutical care. Fundamental knowledge in these areas allows the clinician to understand the theory and application to aid in the selection of the proper therapeutic agent or agents for disease control in the presence of a number of variables including patient variables such as age, gender, diet, and co-existing conditions; drug variables, such as potency, adverse effects, interactions, pharmacokinetics and others such as cost, availability, etc. This course will finish central nervous system disorders and then cover the therapeutics of pain management, as well as the medicinal chemistry and pharmacology of the drugs used to treat these conditions.
4 credits
In-Person, Lecture

PHAR 138G — Principles of Drug Actions III
This is the Third course in the sequence that teaches the pharmacology, and medicinal chemistry of medicinal agents. The integrated nature of this course emphasizes the interrelationship of these areas that is vital to understanding the basis of patient centered pharmaceutical care. Fundamental knowledge in these areas allows the clinician to understand the theory and application to aid in the selection of the proper therapeutic agent or agents for disease control in the presence of a number of variables including patient variables such as age, gender, diet, and co-existing conditions; drug variables, such as potency, adverse effects, interactions, pharmacokinetics and others such as cost, availability, etc. This course covers essential pharmacology and medicinal chemistry on topics including dyslipidemia, hypertension, thrombosis, arrhythmia, heart failure, renal and respiratory disorders, anemia, diabetes, endocrine disorders, GI disorders, arthritis and other inflammatory conditions, and chemotherapy for cancers.
5 credits
In-Person

PHAR 139G — Self-Care and Holistic Wellness I
This course will present those conditions considered to be self-treatable according to current medical guidelines. For the respective conditions, a survey of the products available, their effectiveness, proper selection and appropriate patient counseling will be discussed. Counseling strategies specific to OTC products will also be presented. This course also includes holistic wellness approach that addresses the body, mind and spirit or the physical, emotional/mental and spiritual aspects of an individual such as massage therapy, Tai Chi, yoga, progressive muscle relaxation, and Reiki.
2 credits
In-Person

PHAR 141G — Pharmaceutics
This course studies physical pharmacy and pharmaceutical dosage forms. Students will learn to apply their knowledge of the physical and chemical properties of drugs to the ability to formulate stable dosage forms that can be utilized in commercial production of, or individually compounded, drug products. Students will be introduced to the theory and practice involved in the rational selection of dosage forms and drug delivery systems as well as issues that may arise from these choices. The theory and practice of pharmaceutical compounding, including a discussion of Good Manufacturing Practices (GMPs) and Good Compounding Practices will be presented. Legal and professional issues will also be presented.
3-4 credits
In-Person

PHAR 145G — Pharmaceutical Calculations
This is an introduction to metrology and pharmaceutical calculations. A brief review of basic mathematical concepts is followed by historical review of measurement systems specific to the profession of pharmacy. Detailed interpretation of the prescription and the variety of abbreviations and notations utilized is followed by presentation of the methods used to calculate, express, or determine the amount of drug to utilize in the preparation of a variety of pharmaceutical preparations ranging from oral, topical, optic, ophthalmic and finally to parenteral products. Determination of drug concentration, toxicity, equivalents, potency, proof, density and specific gravity is also addressed.
2, 3 credits
In-Person, Lecture

PHAR 150G — Biochemistry with Clinical Correlations
This course is an introduction to the physical, chemical, structural, and functional properties of molecules associated with the chemistry of life processes. Carbohydrate, lipid, protein, and nucleic acid biosynthesis and/or degradation will be discussed along with DNA and RNA biosynthesis, enzymology, and gene expression.
4 credits
In-Person, Lecture

PHAR 161G — Patient Skills Lab I
This course first in five-Patient Care Skills lab course sequence. This course provides students an understanding of patient encounters and provides the necessary skills to perform, participate and understand while managing difficult patient encounters. This course also includes social and behavioral aspects of patient interaction techniques and clinical decision making skills in patient care. This course examines the specialized communication skills used in the practice of patient counseling. Students will study basic counseling skills, and interventions, including important areas such as self-awareness, information and knowledge that contribute to becoming effective counselors.
1 credits
In-Person, Lecture

PHAR 162G — Patient Skills Lab II
In this course students will become proficient with the equipment, calculations, procedures, and records used in the nonsterile compounding of various dosage forms. Good Compounding Practices adopted by the National Association of Boards of Pharmacy will be followed. Practical examples of compounding of liquid, solid, and semi-solid oral dosage forms as well as enteral and topical products will be prepared as part of the laboratory exercises.
1 credits
In-Person

PHAR 172G — Introductory Pharmacy Practice Experience, Community
This Introductory Pharmacy Practice Experience (IPPE) is designed as an introduction to the profession of pharmacy. It offers the initial exposure of students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient centered care for the rest of their academic and professional careers. Students will spend four hours a week for twelve weeks in a community pharmacy setting, for a total of 48 hours.
1 credits

PHAR 173G — Introductory Pharmacy Practice Experience, Community
This introductory pharmacy practice experience (IPPE) is designed as an introduction to the profession of pharmacy in the community setting. It offers the initial exposure of students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care for the rest of their academic and professional careers. This rotation will develop the students skills in patient interviews, patient profiles/charts, patient interviews and focus on ensuring medication safety. Other skills that will be advanced include the knowledge of medication distribution systems and practice management. The skills developed during this sequence will prepare the student to enter into the Advanced Pharmacy Practice Experiences (APPEs) during the fourth year of the professional pharmacy curriculum.
0-3 credits
In-Person

PHAR 174G — Introductory Pharmacy Practice Experience, Institutional
3 credits
In-Person

PHAR 199G — Milestone Progression Exam I
0 credits

PHAR 208G — Research Methods
Two important inferential statistical techniques: Logistic regression and Time-to-event analysis will be introduced in this course. The course will also introduce different types of fundamental study designs (RCT, Cohort Study, Case Control Study) used in pharmacy and clinical research. Students will also read and analyze articles published in the medical literature and evaluate the statistical methodology being used.
1 credits
In-Person, Lecture

PHAR 209G — Public Health and Pharmacoepidemiology
1 credits
In-Person

PHAR 214G — Integrated Case Studies IV
This is the fourth course in a case studies course series in the second professional year designed to engage students in course related activities. Activities are designed to bring relevance to concepts presented in the classroom from Principles of Drug Action III and Immunology and microbiology. This course includes but is not limited to assigning interactive sessions leading to active learning, critical thinking and problem solving. It could include breakout room activity such as practice problem sessions/workshops, course related cases/vignettes, short quizzes, essay type assignments, reading recitations, reflections, projects, and material/exam reviews. The experience should continue the transition from courses instruction to the application or practice phase of pharmacy.
1 credits
In-Person, Lecture

PHAR 215G — Integrated Case Studies V
(Part 2) This course is designed to increase competence in developing a well-designed and patient oriented pharmaceutical care plan. The pharmaceutical care plan is used to identify, prevent and resolve actual or potential drug-related problems. This results in improved clinical outcomes, patient satisfaction and quality of life as well as a reduction in drug related morbidity and mortality.
1 credits
In-Person

PHAR 216G — Integrated Case Studies VI
(Part 3) This course is designed to increase competence in developing a well-designed and patient oriented pharmaceutical care plan. The pharmaceutical care plan is used to identify, prevent and resolve actual or potential drug-related problems. This results in improved clinical outcomes, patient satisfaction and quality of life as well as a reduction in drug related morbidity and mortality.
1 credits
In-Person

PHAR 221G — Health Care Systems and Policy
The course provides an introduction to the U.S. health care system, managed health care and pharmacy services. The structure, organization, and delivery of health care in the United States are presented with emphasis placed on the pharmacist's role in patient care. Problems with the system will be covered along with approaches being used to address these problems. Emphasis will be placed on where pharmacy operates within our health care system, how it can be the solution to some of our health care problems and the major currently debatable issues surrounding health care.
2 credits
In-Person, Lecture

PHAR 224G — Medical Microbiology and Immunology
An integrated course in immunology and microbiology that emphasizes the role of each in the maintenance of health and the development, progression, and treatment of disease states related to immune dysfunction, microbiological infection, or both. An introduction to innate immunity, including biochemical and cellular aspects, as well as adaptive immunity, including humoral and cell- mediated immunity, and immunological memory is followed by a discussion of diseases of the immune system, the role of immunity in neoplasia, and manipulation of the immune system by pathogens, drugs and diet. Basic principles of microbiology including classification, anatomy, staining, and genetics of microorganisms is followed by a more detailed discussion of medically important bacteria, mycoplasmas, rickettsiae, chlamydiae, viruses, fungi, and parasites. Emphasis is placed on mechanisms of pathogenesis, methods of control, mechanisms of resistance, and prevention of diseases caused by these organisms as well as the inter-relationship between micro-organisms and the immune system.
3, 4 credits
In-Person, Lecture

PHAR 228G — Pharmacy Administration and Management and Entrepreneurship
Basic managerial, organizational, and financial management concepts are presented that enable the practicing pharmacist to manage people, change, structural demands, and organizational behavior to provide optimum care and services as a health professional. This course will also introduce entrepreneurial and marketing topics for use in pharmacy and health care system practice environments. The analysis of management principles as they relate to community and health-system pharmacy management will be stressed including planning, organizing, motivation and marketing.
2 credits
In-Person, Lecture

PHAR 229G — Pharmacotherapy III
The course is designed to train students in the last 3 components of the Pharmacists' Patient Care Process (PPCP): Plan, Implement, and Follow-Up. Guided by the instructors in the course, students will be complete their thought process or approach to pharmacotherapeutic problems. The course will rely on team-based learning and a flipped-classroom model to engage students in the application of pharmacotherapy as it relates to patient care plans.
5 credits
In-Person

PHAR 231G — Pharmacotherapy I
5 credits
In-Person, Lecture

PHAR 232G — Pharmacotherapy II
5 credits
In-Person

PHAR 233G — Pharmacy Practice II Topics in Patient Care
This course covers the practice of pharmacy in health care systems such as hospital, home care, managed care, hospice and palliative care as well as ambulatory and long-term care. Discussions will focus on the types of patients treated, models of practice and practice standards as well as the various accreditation agencies, government regulation, and institutional policies and procedures. Additional topics may also include the following: include parenteral and enteral nutrition, Pharmacy and Therapeutic (P&T) Committees, investigational drug use, medication reconciliation, ethics boards, and code response involvement as well as technological advances and automation
3 credits
In-Person

PHAR 241G — Integrated Infectious Disease
This is the first course in the Infectious Disease sequence that teaches the pharmacology, medicinal chemistry and therapeutics of agents used to treat infectious diseases. The integrated nature of this course emphasizes the interrelationship of these areas that is vital to understanding the basis of patient- centered pharmaceutical care. Fundamental knowledge in these areas allows the clinician to understand the theory and application to aid in the selection of the proper therapeutic agent or agents for infection control in the presence of a number of variables including patient variables such as age, gender, diet, and co-existing conditions; drug variables such as potency, adverse effects, interactions, and pharmacokinetics; and others such as cost, drug availability, and alternative treatments available. This course will cover agents used to treat infections caused by bacteria.
3 credits
In-Person

PHAR 251G — Integrated Toxicology and Patient Safety
2 credits
In-Person, Lecture

PHAR 253G — Personal and Professional Development II
1-3 credits
In-Person, Lecture

PHAR 254G — Patient Care Skills Lab IV
1 credits
In-Person

PHAR 256G — Patient Care Skills Lab III
This laboratory will familiarize the student with basic patient assessment including the practice of inspection, palpation, percussion and auscultation. These fundamental physical assessments will be incorporated into patient evaluations while using clinically relevant patient data, drug histories/interviews, laboratory values, and point-of-care diagnostic tests. Principles of medication therapy management (MTM) will be used to develop pharmaceutical care plans with acting patients who will then be counseled.
1 credits
In-Person

PHAR 262G — IPPE Intro Clinical Services II
This IPPE provides direct practical experience to the student in a healthcare system setting, specifically in a center providing ambulatory care. The students will become familiar with the role of the pharmacist as part of an interdisciplinary team in the provision of patient care. Students will also conduct patient interviews, review patient profiles/charts, and further develop their SOAP note skills. The skills developed during this course will prepare the student to enter into the Advanced Pharmacy Practice Experiences (APPEs) during the fourth year of the professional pharmacy curriculum.
1 credits

PHAR 263G — IPPE Clinical
0-3 credits
In-Person

PHAR 265G — IPPE Community
0-3 credits
In-Person

PHAR 269G — Biopharmaceutics
This is a study of drug absorption, distribution, metabolism and excretion (ADME) as well as individual differences that influence these processes. Drug parameters that control ADME will be studied, such as solubility, pKa, molecular size, and protein binding. Physiological determinants underlying ADME, such as cellular transporters, hepatic metabolism, and hepatic and renal elimination, as well as factors affecting drug distribution will also be presented. Finally, the concept of bioequivalence, its determination and application will be presented.
4 credits
In-Person, Lecture

PHAR 299G — Milestone Progression Exam II
A comprehensive examination will be given at the end of the second year that will assess knowledge and skills acquired in the first two years. Students must pass this examination to progress to the third professional year.
0 credits

PHAR 308G — Literature Evaluation and Evidence Based Practice
1 credits
In-Person, Lecture

PHAR 309G — Pharmacoeconomics and Health Outcomes
1 credits
In-Person, Lecture

PHAR 314G — Pharmacogenomics and Personalized Medicine
This course covers the practice of pharmacy in health care systems such as hospital, home care, managed care, hospice and palliative care as well as ambulatory and long-term care. Discussions will focus on the types of patients treated, models of practice and practice standards as well as the various accreditation agencies, government regulation, and institutional policies and procedures. Additional topics may also include the following: include parenteral and enteral nutrition, Pharmacy and Therapeutic (P&T) Committees, investigational drug use, medication reconciliation, ethics boards, and code response involvement as well as technological advances and automation.
1 credits
In-Person

PHAR 315G — Integrated Case Studies VII
(Part 1) This course is designed to increase competence in developing a well-designed and patient oriented pharmaceutical care plan. The pharmaceutical care plan is used to identify, prevent and resolve actual or potential drug-related problems. This results in improved clinical outcomes, patient satisfaction and quality of life as well as a reduction in drug related morbidity and mortality.
1 credits
In-Person, Lecture

PHAR 316G — Integrated Case Studies VIII
(Part 2) This course is designed to increase competence in developing a well-designed and patient oriented pharmaceutical care plan. The pharmaceutical care plan is used to identify, prevent and resolve actual or potential drug-related problems. This results in improved clinical outcomes, patient satisfaction and quality of life as well as a reduction in drug related morbidity and mortality.
1 credits
In-Person

PHAR 317EG — Nuclear Pharmacy Elective
This course will serve as an introduction to nuclear pharmacy practice. This course provides basic information about the profession of nuclear pharmacy, as well as an introduction to basic principles and concepts of radioactivity, radiation safety, and roles of a nuclear pharmacist.
1 credits
OnLine

PHAR 317G — Integrated Case Studies IX
(Part 3) This course is designed to increase competence in developing a well-designed and patient oriented pharmaceutical care plan. The pharmaceutical care plan is used to identify, prevent and resolve actual or potential drug-related problems. This results in improved clinical outcomes, patient satisfaction and quality of life as well as a reduction in drug related morbidity and mortality.
1 credits
In-Person

PHAR 318G — Self Care and Holistic Wellness II
3 credits
In-Person, Lecture

PHAR 325EG — Advanced Diabetes Care Management
1, 1 credits
In-Person

PHAR 327EG — Antimicrobial Stewardship
1 credits
In-Person

PHAR 327G — Integrated Basic and Applied Pharmacokinetics
General principles of pharmacokinetic models are presented as they pertain primarily to the processes of absorption and elimination of drugs. Detailed mathematical models will be developed and utilized to determine the appropriate dose and dose interval based on patient-specific data utilizing relevant examples throughout. Therapeutic monitoring of drug levels in the patient and adjustments in dosing based on monitoring will also be presented. This is followed by discussion of specific examples using drugs commonly dosed and monitored using detailed pharmacokinetic analysis.
3 credits
In-Person, Lecture

PHAR 333G — Advanced Pharmacotherapy I
5 credits
In-Person, Lecture

PHAR 334G — Advanced Pharmacotherapy II
5 credits
In-Person, Lecture

PHAR 335G — Advanced Pharmacotherapy III
5 credits
In-Person

PHAR 340EG — Comprehensive Diabetes Management
1 credits
In-Person, Lecture

PHAR 341EG — Entrepreneurship Ambulatory Care Practice
1 credits
In-Person, Lecture

PHAR 342EG — Advanced Cardio Management
1 credits
In-Person

PHAR 343EG — Chronic Disease Management
1 credits
In-Person, Lecture

PHAR 344EG — Public Health in Ambulatory Care Management
1 credits
In-Person, Lecture

PHAR 345EG — Chronic Disease State Management
1 credits
In-Person

PHAR 346EG — Pharmacy Management of Patient Social Determinates in Patient Care
1 credits
In-Person

PHAR 347EG — Advanced Oncology
1 credits
In-Person, Lecture

PHAR 350EG — Emergency Medicine
1 credits
In-Person, Lecture

PHAR 351EG — Opioid Stewardship Pain and Palliative Care
1 credits
In-Person, Lecture

PHAR 352G — Patient Care Skills Lab V
1 credits
In-Person, Lecture

PHAR 353EG — Special Topics in Pediatrics
1 credits
In-Person

PHAR 353G — Personal and Professional Development III
1 credits
In-Person, Lecture

PHAR 354EG — Topics Discussions Considerations Pharmacy and Geriatrics
1 credits
In-Person

PHAR 354G — Patient Care Skills Lab VI
1 credits
In-Person

PHAR 355EG — Nutrition and Transplantation
1 credits
In-Person

PHAR 356EG — Seminar in Evidenced Based CC
1 credits
In-Person

PHAR 357EG — Psychiatry and Mental Health
1 credits
In-Person

PHAR 358EG — Medical Writing
1 credits
In-Person, Lecture

PHAR 360EG — Health Care Informatics
1 credits
In-Person, Lecture

PHAR 361EG — Drug Pricing Contracts and Marketing
1 credits
In-Person, Lecture

PHAR 362EG — Advanced Health Care Systems and Services
1 credits
In-Person, Lecture

PHAR 364EG — Pharmacovigilance
1 credits
In-Person

PHAR 365EG — Entrepreneurship Community Pharmacy Management
1 credits
In-Person, Lecture

PHAR 366EG — Form Management and Drug Utilization Review
1 credits
In-Person, Lecture

PHAR 367EG — Leadership in MCO PCMH's and ACO's
1 credits
In-Person

PHAR 368EG — Pharmacoeconomics Modeling
1 credits
In-Person

PHAR 368G — Pharmacy Law and Ethics
Federal and state laws and regulations which pertain to the practice of pharmacy in Georgia are presented in detail. General business law and liability issues which affect the practice of pharmacy will also be discussed. Finally, ethical issues as they relate to the practice of pharmacy, and health care delivery in general, are examined.
3 credits
In-Person

PHAR 369EG — Drug Information in the Pharmacy Industry
1 credits
In-Person

PHAR 390EG — Introduction to Medical Cannabis
1 credits
In-Person, OnLine

PHAR 399G — Milestone Progression Exam III
A comprehensive examination will be given at the end of the third professional year that will assess knowledge and skills acquired in the first three years of education at PCOM School of Pharmacy. Students must pass this examination to progress to the fourth professional year. The examinations include a comprehensive multiple-choice exam and a short answer calculation exam.
0 credits

PHAR 410G — Advanced Community Pharmacy
This Advanced Pharmacy Practice Experience (APPE) is designed for the students to obtain supervised professional experience as a community pharmacist. This advanced rotation exposes students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient- centered care.
4 credits

PHAR 420G — Advanced Health Systems Pharmacy
This Advanced Pharmacy Practice Experience (APPE) is designed for the students to obtain supervised professional experience in the functions of a staff pharmacist in an institutional pharmacy. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 430G — Advanced Ambulatory Care
This Advanced Pharmacy Practice Experience (APPE) is designed for the students to obtain supervised professional experience in the functions of a clinical pharmacist in the ambulatory care practice setting. Ambulatory care pharmacy is defined as “direct pharmaceutical care services provided to patients in an outpatient environment, exclusive of dispensing services.” This advanced rotation exposes students to ambulatory care workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 440G — Advanced Community Management
This Advanced Pharmacy Practice Experience (APPE) is designed for the students to obtain supervised professional experience in the managerial functions of a community pharmacist. This advanced rotation exposes students to leadership and managerial skills necessary in the community pharmacy workplace. This course helps students develop the requisite knowledge necessary to understand inventory control, profit and loss statements and human resource issues.
4 credits

PHAR 450G — Advanced Inpatient Acute Care and Diverse Populations
This Advanced Pharmacy Practice Experience (APPE) is designed for the students to obtain supervised professional experience in the functions of a clinical pharmacist in the acute care practice setting. Clinical intervention and the steps necessary to effectively execute those interventions will be a primary focus of this rotation. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient- centered care.
4 credits

PHAR 499G — Capstone
A Capstone II (Comprehensive Examination Fourth Year) will be given at the end of the fourth professional year that will assess knowledge and skills acquired in the four years of education at PCOM School of Pharmacy. Students must pass this Capstone II to graduate from the program.
0 credits

PHAR 501G — Academia
An elective experience designed to stimulate the interest of pharmacy students in academia and provide the student with an understanding of the functions and processes of teaching, service and scholarship. Students may be exposed to situations that will increase their understanding of the various responsibilities of a full-time faculty position in pharmacy education.
4 credits

PHAR 502G — Administrative Hospital
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the administrative duties of healthcare systems. Depending on the site, students may be exposed to situations that will increase their knowledge in the area of administrative, behavioral, economic and legal sciences. The role of the pharmacy director/manager will be a primary emphasis of this experience.
4 credits

PHAR 503G — Administrative Community
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the administrative duties of community pharmacy. Depending on the site, students may be exposed to situations that will increase their knowledge in administrative, behavioral, economic and legal sciences. The role of the manager will be a primary emphasis of this experience.
4 credits

PHAR 504G — Associations
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the management of national, regional or state pharmacy organizations. Depending on the site, the students may be exposed to situations that will increase their knowledge and understanding of the purpose, roles and responsibilities of pharmacy associations in the profession.
4 credits

PHAR 505G — Industry
An elective practice experience designed to enable the student to acquire general knowledge and high level of exposure to the pharmaceutical industry, with exposure to a variety of areas within the pharmaceutical industry.
4 credits

PHAR 506G — Regulatory Affairs
4 credits

PHAR 510G — Community Pharmacy Ownership
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic fundamentals of owning and running an independent community pharmacy. This advanced rotation exposes students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 511G — Pharmacy Benefit Manager
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic knowledge and a high level of exposure to a variety of activities conducted by a Pharmacy Benefit Manager. A PBM is an organization that manages the pharmaceutical benefits for managed care organizations, other medical providers or employers. Depending on the site, the student may be exposed to numerous activities to promote managed care principles, including benefit plan design, creation/administration of retail and mail service networks, claims processing, drug utilization review, formulary management, generic dispensing, prior authorization and/or disease and health management.
4 credits

PHAR 512G — Infomatics
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the history, language and concepts of information technology in the field of pharmacy. Depending on the site, students may be exposed to database management, automation and robotics, electronic prescribing, and health records.
4 credits

PHAR 514G — Pharmacokinetics
An elective practice experience designed to enable the student to acquire skills and knowledge in the functioning of an established clinical pharmacokinetics practice and information on methods for establishing such a service. Expertise in calculations is expected from previous coursework. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 515G — Cardiology
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the pharmacotherapy of various cardiovascular disease states in a diverse patient population. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 516G — Nephrology
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the pharmacotherapy of a patient with various diseases of the kidney. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient- centered care.
4 credits

PHAR 517G — Mail Order Pharmacy
4 credits

PHAR 518G — Neonatal Intensive Care Unit
4 credits

PHAR 520G — Compounding
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the rationale for and the various techniques used in the extemporaneous compounding of pharmaceutical products. This advanced rotation exposes students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 521G — Drug Information
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the practice of basic drug information. Depending on the site, the students may be exposed to activities such as preparing formulary evaluations, writing pharmacy newsletters, working on special interest projects and enhancing their verbal and written communication skills.
4 credits

PHAR 522G — Medication Reconciliation
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the practice of medication reconciliation. Depending on the site, the student will be exposed to the process of comparing a patient's medication orders to all of the medications that the patient has been taking. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient centered care.
4 credits

PHAR 523G — Medication Therapy Management
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the pharmacist's role in providing Medication Therapy Management services. Depending on the site, the student will be trained to evaluate a patient's medication therapy, including drug interactions, duplications or omission of therapy. This advanced rotation exposes students to community pharmacy workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 524G — Medication Safety
4 credits

PHAR 525G — Anticoagulation
4 credits

PHAR 530G — Critical Care
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the pharmacotherapy of a critically ill patient in a hospital setting. The student will be exposed to various medication management strategies of various critical conditions.
4 credits

PHAR 532G — Home Health Care
4 credits

PHAR 533G — Long-Term Care
An elective practice experience designed to enable the student to acquire skills and knowledge regarding treatment of geriatric patients in a long term care facility. Depending on the site, students may be exposed to situations that will increase their ability to demonstrate empathy for the elderly and develop pharmaceutical care plans for various chronic disease states with consideration of various pharmacokinetic properties, dosing principles, and therapeutic drug monitoring parameters of geriatric patients in long term care facilities. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 534G — Managed Care
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the practice of clinical pharmacy in the managed care setting. Students will be exposed to pharmacy administration issues such as formulary development and management, therapeutic class reviews, pharmacoeconomics analysis, communication with patients, providers, and employer groups, counseling and participation in prior authorization process and other third-party reimbursement issues.
4 credits

PHAR 536G — Forensic Pharmacy
4 credits

PHAR 538G — Healthcare Business Management
4 credits

PHAR 541G — Infectious Disease
An elective practice experience designed to enable the student to acquire skills and knowledge regarding the pharmacotherapy of patients with various infectious diseases. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient- centered care.
4 credits

PHAR 543G — Nuclear
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic pharmaceutical care, radiopharmaceutical compounding, quality assurance, health physics and regulatory compliance.
4 credits

PHAR 544G — Nutritional Support
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic nutritional principles, nutritional assessment, and management of the patient requiring enteral and/or total parenteral nutrition support. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient- centered care.
4 credits

PHAR 545G — Oncology
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic clinical oncology pharmacy practice. Depending on the site, students may be exposed to situations that will enhance their understanding of pharmaceutical support to the inpatient/outpatient oncology service, including staging, treatment, dosing, monitoring, and supportive care issues. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 546G — Pediatrics
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic pharmacotherapy of pediatric patients with common childhood acute and chronic illnesses. Depending on the site, students may be exposed to different pharmacokinetic properties, dosing principles and therapeutic drug monitoring in children. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 547G — Poison Control
4 credits

PHAR 548G — Psychiatry
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic clinical pharmacotherapy of various psychiatric disorders of children, adolescents and/or adults. This advanced rotation exposes students to health care system workplaces with diverse patient populations, and helps students develop the requisite knowledge, skills, attitudes, and values for the provision of patient-centered care.
4 credits

PHAR 549G — Surgery
4 credits

PHAR 550G — Public Health
4 credits

PHAR 551G — Internal Medicine
4 credits

PHAR 553G — Investigating New Drug Services
4 credits

PHAR 554G — Veterinary Medicine
4 credits

PHAR 555G — Emergency Medicine
4 credits

PHAR 590G — Interdisciplinary
4 credits

PHAR 591G — Research
An elective practice experience designed to enable the student to acquire skills and knowledge regarding basic pharmacy-related research. Depending on the site, the student may observe and participate in various stages of ongoing research project(s), including conducting experiments, analyzing data.
4 credits

PHAR 592G — Specialty Pharmacy Practice
4 credits

PHAR 593G — Transition of Care
4 credits

PHAR 594G — Medical Cannabis Dispensary
4 credits

PHAR 595G — Inter-Professional Ambulatory Care
4 credits

PHAR 596G — Hematology
4 credits

PHAR 597G — Transplant Services
4 credits