School of Pharmacy

Overview
Academics & Admissions
Departments
Programs
Courses
Faculty
Awards

Courses
School of Pharmacy

Phcy 100: Introduction to Pharmacy
Phcy 400: Becoming a Pharmacist
Phcy 401: Foundations of BioMolecular Sciences I
Phcy 402: Foundations of BioMolecular Sciences II
Phcy 411: Human Physiology/Pathophysiology I
Phcy 412: Human Physiology/Pathophysiology II
Phcy 421: Pharmaceutics and Calculations I
Phcy 422: Pharmaceutics and Calculations II
Phcy 431: Social and Administrative Pharmacy I
Phcy 432: Social and Administrative Pharmacy II
Phcy 441: Pharmacists' Patient Care Process I
Phcy 442: Pharmacists' Patient Care Process II
Phcy 451: Pharmacogenomics
Phcy 452: Pharmacoinmunology
Phcy 460: Personal and Professional Development I
Phcy 461: Interprofessional Collaboration I
Phcy 501: Infectious Diseases Intensive
Phcy 502: Integrated Systems: Cardiovascular
Phcy 503: Integrated Systems: Respiratory
Phcy 504: Integrated Systems: Renal
Phcy 505: Integrated Systems: Neuromuscular
Phcy 506: Integrated Systems: CNS/Psych
Phcy 507: Integrated Systems: Endocrine System
Phcy 508: Integrated Systems: GI/Nutrition
Phcy 509: Integrated Systems: DERM/EENT
Phcy 550: Integrated Institutional IPPE
Phcy 560: Personal and Professional Development II
Phcy 561: Interprofessional Collaboration II
Phcy 601: Multisystem Complex Patient Care I
Phcy 602: Hematology/Oncology/Immunology
Phcy 603: Integrated Genitourinary & Reproductive
Phcy 604: Pediatrics and Geriatrics
Phcy 605: Integrated Selective IPPE
Phcy 606: Population and Rural Health
Phcy 607: Practice Law Application
Phcy 608: Multisystem Complex Patient Care II
Phcy 650: Integrated Comm & Ambulatory IPPE
Phcy 651: Integrated Inst & Specialty IPPE
Phcy 660: Personal & Professional Development III
Phcy 661: Interprofessional Collaboration III
TOCP 591: Transitions of Care Patient Care APPE

Biomolecular Sciences

BMS 321: Pathogenesis of Infectious Diseases
BMS 343: Biochemical Foundations of Therapeutics
BMS 344: Physiological Foundation of Therapeutics
- BMS 345: Anatomical Foundations in Human Health
- BMS 401: Honors Introduction to Cancer Research
- BMS 470: Antimicrobial Resistance Mechanisms
- BMS 471: Targeting Neurodegenerative Diseases
- BMS 472: Spanish for Pharmacists
- BMS 473: Medical Cannabis
- BMS 474: Pandemics and Society
- BMS 475: Molecular Basis of Future Medicines
- BMS 601: Graduate Student Survival Strategies
- BMS 602: Techniques in BioMolecular Sciences
- BMS 605: Original Research Proposal
- BMS 608: Scientific Writing for BioMolecular Science
- BMS 610: Carbohydrates and Glycoconjugates
- BMS 641: BioMolecular Sciences Seminar
- BMS 643: BioMolecular Sciences Seminar
- BMS 697: Thesis
- BMS 725: Mass Spectrometry: Fundamentals
- BMS 767: Advanced Topics in Toxicology
- BMS 797: Dissertation
- Medc 317: Pharmacogenetics and Pharmacoinmunology
- Medc 318: Chemical and Biological Terrorism
- Medc 319: Computer-Aided Drug Design
- Medc 415: Chemical Neurosci. Prin. of Drug Abuse
- Medc 416: Intro to the Principles of Med Chem I
- Medc 417: Intro to the Principles of Med Chem II
- Medc 419: Neuroscience Principles of Drug Abuse
- Medc 419: Special Topics in Oncology
- Medc 501: Advanced Medicinal Chemistry I
- Medc 502: Advanced Medicinal Chemistry II
- Medc 503: Medicinal Chemistry Research Methodology
- Medc 507: Organic Chemistry of Drug Synthesis
- Medc 541: Problems in Medicinal Chemistry
- Medc 542: Problems in Medicinal Chemistry
- Medc 610: Selected Topics in Medicinal Chemistry
- Medc 630: Pharmaceutical Protein Design & Devel
- Medc 711: Intro to Computer-Aided Drug Design
- Medc 712: Quantitative Structure-Activity Relation
- Medc 713: Drugs Affecting the Nervous System
- Medc 714: Chemotherapeutic Agents
- Medc 718: Bioorganic Chemistry
- Phcg 320: Special Topics in Oceans & Human Health
- Phcg 329: Herbal Supplements & Alternative Therapy
- Phcg 422: Natural Product Derived Pharmaceuticals
- Phcg 425: Poisonous Plants and Mushrooms
- Phcg 426: Cancer Chemo - Targets and Discovery
- Phcg 427: Drug Discovery I
- Phcg 428: Drug Discovery II
- Phcg 450: Career/Achievements in BMS, Nat.Prod.Res
- Phcg 451: Probiotics in Pharmacy
- Phcg 541: Problems in Pharmacognosy
- Phcg 542: Problems in Pharmacognosy
- Phcg 545: Individual Study in Pharmacognosy Res
- Phcg 546: Individual Study in Pharmacognosy Res
- Phcg 550: Careers/Achievements in BMS
- Phcg 620: Selected Topics in Pharmacognosy
- Phcg 627: Natural Product Chemistry
- Phcg 628: Natural Product Chemistry
- Phcg 630: Advanced Topics
- Phcg 631: Analysis of Natural Product Drugs I
- Phcg 632: Analysis of Natural Product Drugs II
- Phcg 633: Analysis of Natural Product Drugs III
- Phcg 634: Biosynthesis of Plant Constituents
- Phcg 635: Introduction to Molecular Cell Biology
- Phcg 636: Fermentation Chemistry
- Phcl 202: Environmental Health Perspectives
- Phcl 340: Animal Cells: Testing New Drugs
- Phcl 341: Human Pathophysiology I
- Phcl 342: Human Pathophysiology II
- Phcl 345: Nutritional Pharmacology
- Phcl 346: Immunological Basis for Therapeutics
- Phcl 347: Introduction to Environmental Toxicology
- Phcl 348: Principles of Life Science Research
- Phcl 349: Specialized Topics in Environ. Health
- Phcl 351: Drugs and Human Performance
- Phcl 352: Case Studies in Immunology
- Phcl 381: Introduction to Toxicology
- Phcl 382: Fundamentals of Cancer
- Phcl 440: Physiologic Case Study for Therapeutics
- Phcl 441: Pharmacology: Novel Drugs in Clin Trials
- Phcl 442: Clinical Toxicology
- Phcl 443: Basis and Clinical Pharmacology I
- Phcl 444: Basis and Clinical Pharmacology II
- Phcl 445: Nutritional Pharmacology
- Phcl 501: Principles of Life Science Research
- Phcl 503: Lab Meth in Pharmacology & Toxicology I
- Phcl 504: Lab Meth in Pharmacology & Toxicology II
- Phcl 505: Modern Phcl: Novel Drugs Clinical Trials
- Phcl 541: Problems in Pharmacology
- Phcl 547: Introduction to Environmental Toxicology
- Phcl 563: Introductory Pharmacology I
- Phcl 564: Introductory Pharmacology II
- Phcl 569: Drug Abuse Education
- Phcl 581: Introduction to Toxicology
- Phcl 586: Receptors and Channels
- Phcl 611: Teaching in Pharmacology and Toxicology
- Phcl 612: Teaching in Pharmacology and Toxicology
- Phcl 641: Unified Lab in Pharm, Tox & Phys Chem
- Phcl 642: Unified Lab in Pharm, Tox & Phys Chem
- Phcl 643: Seminar: Curr Topics in Pharm & Tox
- Phcl 651: Directed Studies in Pharm and Tox
- Phcl 652: Directed Studies in Pharm and Tox
- Phcl 661: Advanced Physiology
- Phcl 662: Advanced Physiology
- Phcl 663: General Pharmacology I
- Phcl 665: Human Neurobiology
- Phcl 668: Externship in Pharmacology
- Phcl 669: Physiological Chemistry
- Phcl 675: Gen Princ of Pharmacology & Toxicology I
- Phcl 676: Gen Princ - Pharmacology & Toxicology II
- Phcl 677: Advanced Topics
- Phcl 679: Methods in Pharmacology and Toxicology
- Phcl 681: Sai Topics - Pharmacology and Toxicology
- Phcl 685: Externship in Toxicology

**Pharmaceutics & Drug Delivery**
- Phar 432: Concepts in Pharmaceutical Biotechnology
- Phar 433: Pharmaceutical Industry
- Phar 435: Pharmaceutical Stability
- Phar 436: Product Development
Phar 541: Problems in Pharmaceutics
Phar 542: Problems in Pharmaceutics
Phar 543: Seminar in Current Pharm. Topics
Phar 544: Seminar in Current Pharm. Topics
Phar 545: Biopharmaceutics and Pharmacokinetics
Phar 547: Veterinary Pharmaceuticals
Phar 548: Clinical Laboratory Data Analysis
Phar 630: Pharm. Protein Design and Development
Phar 650: Formulation Development
Phar 651: Regulatory Science I
Phar 652: Regulatory Science II
Phar 654: Special Problems in Biopharmaceutics
Phar 658: Pharmaceutical Manufacturing
Phar 698: Special Projects
Phar 697: Thesis
Phar 735: Analytical Pharmaceutics
Phar 741: Advanced Pharmaceutics
Phar 744: Stability of Pharmaceutical Systems
Phar 749: Product Development
Phar 750: Applied Pharmaceutics
Phar 754: Special Problems in Biopharmaceutics
Phar 758: Pharmaceutical Manufacturing
Phar 797: Dissertation

Pharmacy Administration
Phad 393: Learning & Teaching: A Professional Elec
Phad 394: Intermed. Biostatistics for Pharmacists
Phad 395: Pharmacy Ethics
Phad 396: Marketing for Community Pharmacists
Phad 397: Survey of Medication Nonadherence
Phad 430: Research Methods for Pharmacists
Phad 470: Phy & Psychosoc Aspects Women's Health
Phad 478: History of Pharmacy
Phad 492: Current Issues in Health Care
Phad 495: Techniques of Pharmaceutical Sales
Phad 496: Principles of Pharmaceutical Marketing
Phad 497: Personal Finance for Pharmacists
Phad 541: Problems in Pharmacy Administration
Phad 542: Problems in Pharmacy Administration
Phad 543: Seminar in Current Health Topics
Phad 544: Seminar in Current Health Topics
Phad 545: Aspects of Pediatric Pharmacy Practice
Phad 546: Film and Pharmacy
Phad 597: Medical Anthropology
Phad 599: Health Care and Contemporary Society
Phad 661: Epidemiology and Health Data Management
Phad 679: Primary Data Techniques
Phad 687: Secondary Data Techniques
Phad 688: Research Methodology and Techniques
Phad 689: Pharmaceutical and Healthcare Policy
Phad 690: Data Management and Statistical Software
Phad 693: Health Economics
Phad 697: Thesis
Phad 698: Non-thesis Research
Phad 774: Research in Pharmacy Administration
Phad 780: General Linear Models
Phad 781: Applied Multivariate Analysis
Phad 783: Adv Pharmaceutical Mkting & Patient Beha
Phad 786: Patient Reported Outcomes
Phad 792: Drug Development and Marketing
Phad 794: Pharmacoconomics
Pharm 796: Special Topics in Pharmacy Administration
Phad 796: Pharmacoepidemiology
Phad 797: Dissertation

Pharmacy Practice
Phad 796: Academia Advanced Practice Experience
Ambc 591: Ambulatory Care Clerkship
Bari 591: Bariatric Advanced Pharmacy Practice Exp
Biot 591: Biotech Pharmacy Services Advanced Pharm
Card 591: Cardiology Clerkship
Comm 591: Community Pharmacy Clerkship
Crit 591: Critical Care Clerkship
Dinf 591: Drug Information Clerkship
Emer 591: Emergency Medical Clerkship
Gera 591: Geriatrics Clerkship
Home 591: Home Infusion Advanced Pharmacy Practice
Inad 591: Institutional Administration Advanced Ph
Indy 591: Pharmaceutical Industry Clerkship
Infd 591: Infectious Disease Clerkship
Infor 591: Informatics Practice Experience
Inop 591: Institutional Out-Patient Practice Exper
Lead 591: Leadership and Advocacy in Pharmacy
Manc 591: Managed Care Clerkship
Medc 591: Medicine Clerkship
Mgmt 591: Pharmacy Management Advanced Pharmacy Ph
Mspe 591: Medication Safety Practice Experience
Neon 591: Neonatology Advanced Pharmacy Practice E
Neur 591: Neurology Clerkship
Nucl 591: Nuclear Medicine Advanced Pharmacy Pract
Nutr 591: Nutrition Clerkship
Onc 591: Oncology Clerkship
Pain 591: Pain Management Advanced Pharmacy PractI
Peds 591: Pediatric Clerkship
Phcy 470: Distributive Intro Pharmacy Practice Exp
Phcy 471: Institutional Immersion IPPE I
Phcy 510: Community Pharmacy Practice II
Phcy 591: Elective APPE
Phcy 592: Elective APPE
Phcy 593: Elective APPE
Phcy 653: Community Required APPE
Phcy 654: Institutional Required APPE
Phcy 666: Personal & Professional Development IV
Phcy 667: Personal & Professional Development V
Phcy 686: Adult Medicine Required APPE
Phcy 687: Ambulatory Care Required APPE
Pkin 591: Pharmacokinetics Clerkship
Pmtm 591: Pharmacy Medication Therapy Management
Pois 591: Poison Control Clerkship
Prct 357: Advocacy and Leadership in Pharmacy
Prct 358: Geriatrics
Prct 359: Tobacco Cessation Education
Prct 360: Personal Time Mngement for Pharm Students
Prct 361: Vaccine-preventable Illnesses/Travel med
Prct 362: Veterinary Pharmacy
Prct 363: Pharmacy, Microcontrollers & the Interne
Prct 470: Introduction to Nuclear Pharmacy
Prct 471: Advanced Topics in Cardiology
Prct 472: Life After Graduation
Prct 473: Beyond Dispensing
Prct 474: Advanced Infectious Diseases
• Prct 475: Nutrition Support
• Prct 476: Wellbeing & Resiliency for Student Pharm
• Prct 477: Institutional Pharmacy Practice II
• Prct 480: Introduction to Global Health & Pharmacy
• Prct 486: Resiliency in Professional Life
• Prct 488: Advanced Topics in Diabetes Care
• Prct 489: Advanced Topics Critical & Emergent Care
• Prct 541: Problems in Clinical Pharmacy
• Prct 543: Community Pharmacy Practice III
• Prct 544: Institutional Pharmacy Practice III
• Prct 545: Specialty Pharmacy Practice Elective
• Prct 552: Preventive Medicine and Public Health
• Prct 555: Pharmaceutical Care I: Knowledge & Compr
• Prct 556: Pharmaceutical Care I: Problem-Solving
• Prct 557: Pharmaceutical Care I: Group
• Prct 558: Pharmaceutical Care II: Knowledge & Comp
• Prct 559: Pharmaceutical Care II: Problem-Solving
• Prct 560: Pharmaceutical Care II: Group
• Prct 561: Pharmaceutical Care III: Knowledge & Comp
• Prct 562: Pharmaceutical Care III: Problem-Solving
• Prct 563: Pharmaceutical Care III: Group
• Prct 564: Pharmaceutical Care IV: Knowledge & Comp
• Prct 565: Pharmaceutical Care IV: Problem-Solving
• Prct 566: Pediatric Pharmacotherapy
• Prct 569: Pharmaceutical Care IV: Group
• Prct 570: Patient-Caregiver-Provider Education
• Prct 577: Practice Skills Laboratory V
• Prct 599: Clinical Trials Skills
• Psyc 591: Psychiatry Clerkship
• Pubh 591: Public Health Advanced Pharmacy Practice
• Rsch 591: Research Advanced Pharmacy Practice Exp
• SBOP 591: State Board of Pharmacy Practice Exp
• Surg 591: Surgery Clerkship
• Tran 591: Organ Transplant Advanced Pharmacy Pract
• Vetp 591: Veterinary Medicine Advanced Pharmacy Pr
• Womh 591: Women's Health Advanced Pharmacy Pract