School of Pharmacy

Overview
Academics & Admissions
Departments
Programs
Courses
Faculty
Awards

Courses

School of 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

Biomolecular Sciences

- BMS 401: Honors Introduction to Cancer Research
- BMS 470: Antimicrobial Resistance Mechanisms
- BMS 471: Targeting Neurodegenerative Diseases
- BMS 472: Spanish for Pharmacists
- BMS 601: Graduate Student Survival Strategies
- BMS 605: Original Research Proposal BMS
- BMS 641: BioMolecular Sciences Seminar
- BMS 643: BioMolecular Sciences Seminar
- BMS 725: Mass Spectrometry: Fundamentals
- BMS 767: Advanced Topics in Toxicology
- Medc 317: Pharmacogenetics and Pharmacoinmunology
- Medc 318: Chemical and Biological Terrorism
- Medc 319: Computer-Aided Drug Design
- Medc 411: Medicinal Chem of Therapeutic Agents I
- Medc 412: Medicinal Chem of Therapeutic Agents II
- Medc 415: Chemical Neurosci. Prin. of Drug Abuse
- Medc 416: Intro to the Principles of Med Chem I
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medc 417</td>
<td>Intro to the Principles of Med Chem II</td>
</tr>
<tr>
<td>Medc 418</td>
<td>Neuroscience Principles of Drug Abuse</td>
</tr>
<tr>
<td>Medc 419</td>
<td>Special Topics in Oncology</td>
</tr>
<tr>
<td>Medc 501</td>
<td>Advanced Medicinal Chemistry I</td>
</tr>
<tr>
<td>Medc 502</td>
<td>Advanced Medicinal Chemistry II</td>
</tr>
<tr>
<td>Medc 503</td>
<td>Medicinal Chemistry Research Methodology</td>
</tr>
<tr>
<td>Medc 507</td>
<td>Organic Chemistry of Drug Synthesis</td>
</tr>
<tr>
<td>Medc 541</td>
<td>Problems in Medicinal Chemistry</td>
</tr>
<tr>
<td>Medc 542</td>
<td>Problems in Medicinal Chemistry</td>
</tr>
<tr>
<td>Medc 610</td>
<td>Selected Topics in Medicinal Chemistry</td>
</tr>
<tr>
<td>Medc 621</td>
<td>Theory of Technology Development</td>
</tr>
<tr>
<td>Medc 622</td>
<td>Early Stages of Technology Development</td>
</tr>
<tr>
<td>Medc 623</td>
<td>Fostering Creative Environments</td>
</tr>
<tr>
<td>Medc 625</td>
<td>Applied Igert Problems</td>
</tr>
<tr>
<td>Medc 630</td>
<td>Pharmaceutical Protein Design &amp; Devel</td>
</tr>
<tr>
<td>Medc 697</td>
<td>Thesis</td>
</tr>
<tr>
<td>Medc 711</td>
<td>Drug Action &amp; Design I: Intro to Com-Aid</td>
</tr>
<tr>
<td>Medc 712</td>
<td>Drug Action &amp; Design II: Quantit Struct-</td>
</tr>
<tr>
<td>Medc 713</td>
<td>Drug Action &amp; Design III: Drugs Affectin</td>
</tr>
<tr>
<td>Medc 714</td>
<td>Drug Action &amp; Design IV: Chemotherapy of</td>
</tr>
<tr>
<td>Medc 718</td>
<td>Drug Action &amp; Design VI: Bioorganic Chem</td>
</tr>
<tr>
<td>Medc 797</td>
<td>Dissertation</td>
</tr>
<tr>
<td>Phcg 320</td>
<td>Special Topics in Oceans &amp; Human Health</td>
</tr>
<tr>
<td>Phcg 321</td>
<td>Pathogenesis of Infectious Diseases</td>
</tr>
<tr>
<td>Phcg 329</td>
<td>Herbal Supplements &amp; Alternative Therapy</td>
</tr>
<tr>
<td>Phcg 422</td>
<td>Natural Product Derived Pharmaceuticals</td>
</tr>
<tr>
<td>Phcg 425</td>
<td>Poisonous Plants and Mushrooms</td>
</tr>
<tr>
<td>Phcg 426</td>
<td>Cancer Chemo - Targets and Discovery</td>
</tr>
<tr>
<td>Phcg 427</td>
<td>Drug Discovery I</td>
</tr>
<tr>
<td>Phcg 428</td>
<td>Drug Discovery II</td>
</tr>
<tr>
<td>Phcg 450</td>
<td>Career/Achievements in BMS, Nat.Prod.Res</td>
</tr>
<tr>
<td>Phcg 451</td>
<td>Probiotics in Pharmacy</td>
</tr>
<tr>
<td>Phcg 541</td>
<td>Problems in Pharmacognosy</td>
</tr>
<tr>
<td>Phcg 542</td>
<td>Problems in Pharmacognosy</td>
</tr>
<tr>
<td>Phcg 545</td>
<td>Individual Study in Pharmacognosy Res</td>
</tr>
<tr>
<td>Phcg 546</td>
<td>Individual Study in Pharmacognosy Res</td>
</tr>
<tr>
<td>Phcg 550</td>
<td>Careers/Achievements in BMS</td>
</tr>
<tr>
<td>Phcg 620</td>
<td>Selected Topics in Pharmacognosy</td>
</tr>
<tr>
<td>Phcg 627</td>
<td>Natural Product Chemistry</td>
</tr>
<tr>
<td>Phcg 628</td>
<td>Advanced Topics</td>
</tr>
<tr>
<td>Phcg 631</td>
<td>Analysis of Natural Product Drugs I</td>
</tr>
<tr>
<td>Phcg 632</td>
<td>Analysis of Natural Product Drugs II</td>
</tr>
<tr>
<td>Phcg 633</td>
<td>Analysis of Natural Product Drugs III</td>
</tr>
<tr>
<td>Phcg 634</td>
<td>Biosynthesis of Plant Constituents</td>
</tr>
<tr>
<td>Phcg 635</td>
<td>Introduction to Molecular Cell Biology</td>
</tr>
<tr>
<td>Phcg 636</td>
<td>Fermentation Chemistry</td>
</tr>
<tr>
<td>Phcg 697</td>
<td>Thesis</td>
</tr>
<tr>
<td>Phcg 797</td>
<td>Dissertation</td>
</tr>
<tr>
<td>Phcl 202</td>
<td>Environmental Health Perspectives</td>
</tr>
<tr>
<td>Phcl 340</td>
<td>Animal Cells: Testing New Drugs</td>
</tr>
<tr>
<td>Phcl 341</td>
<td>Human Pathophysiology I</td>
</tr>
<tr>
<td>Phcl 342</td>
<td>Human Pathophysiology II</td>
</tr>
<tr>
<td>Phcl 343</td>
<td>Biochemical Foundations of Therapeutics</td>
</tr>
<tr>
<td>Phcl 344</td>
<td>Physiological Foundation of Therapeutics</td>
</tr>
<tr>
<td>Phcl 345</td>
<td>Nutritional Pharmacology</td>
</tr>
<tr>
<td>Phcl 346</td>
<td>Immunological Basis for Therapeutics</td>
</tr>
<tr>
<td>Phcl 347</td>
<td>Introduction to Environmental Toxicology</td>
</tr>
<tr>
<td>Phcl 348</td>
<td>Principles of Life Science Research</td>
</tr>
</tbody>
</table>
Phc 349: Specialized Topics in Environ. Health
Phc 351: Drugs and Human Performance
Phc 352: Case Studies in Immunology
Phc 381: Introduction to Toxicology
Phc 382: Fundamentals of Cancer
Phc 440: Physiologic Case Study for Therapeutics
Phc 441: Pharmacology: Novel Drugs in Clin Trials
Phc 442: Clinical Toxicology
Phc 443: Basic and Clinical Pharmacology I
Phc 444: Basic and Clinical Pharmacology II
Phc 445: Nutritional Pharmacology
Phc 501: Principles of Life Science Research
Phc 503: Lab Meth in Pharmacology & Toxicology I
Phc 504: Lab Meth in Pharmacology & Toxicology II
Phc 505: Modern Phc: Novel Drugs Clinical Trials
Phc 541: Problems in Pharmacology
Phc 547: Introduction to Environmental Toxicology
Phc 563: Introductory Pharmacology I
Phc 564: Introductory Pharmacology II
Phc 569: Drug Abuse Education
Phc 581: Introduction to Toxicology
Phc 586: Receptors and Channels
Phc 611: Teaching in Pharmacology and Toxicology
Phc 612: Teaching in Pharmacology and Toxicology
Phc 641: Unified Lab in Pharm, Tox & Phys Chem
Phc 642: Unified Lab in Pharm, Tox & Phys Chem
Phc 643: Seminar, Curr Topics in Pharm & Tox
Phc 651: Directed Studies in Pharm and Tox
Phc 652: Directed Studies in Pharm and Tox
Phc 661: Advanced Physiology
Phc 662: Advanced Physiology
Phc 663: General Pharmacology I
Phc 665: Human Neurobiology
Phc 668: Externship in Pharmacology
Phc 669: Physiological Chemistry
Phc 675: Gen Princ of Pharmacology & Toxicology I
Phc 676: Gen Princ - Pharmacology & Toxicology II
Phc 677: Advanced Topics
Phc 679: Methods in Pharmacology and Toxicology
Phc 681: Sel Topics - Pharmacology and Toxicology
Phc 685: Externship in Toxicology
Phc 697: Thesis
Phc 797: Dissertation

Pharmaceutics & Drug Delivery
Phar 330: Pharmaceutical Calculations
Phar 331: Basic Pharmaceutics I
Phar 332: Basic Pharmaceutics II
Phar 334: Biopharmaceutics and Pharmacokinetics
Phar 335: Clinical Laboratory Data Analysis
Phar 432: Concepts in Pharmaceutical Biotechnology
Phar 433: Industrial Pharmacy
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 Pharmaceutics
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 696: 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 760: Applied Pharmacokinetics
Phar 797: Dissertation

Pharmacy Administration
Phad 390: Professional Communications in Pharmacy
Phad 391: Pharmacy Administration I
Phad 392: Pharmacy Administration II
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 491: Pharmacy Law
Phad 492: Current Issues in Health Care
Phad 493: Pharmacy Management and Business Methods
Phad 494: Pharmacoecon, Pharmacoepi & Med Safety
Phad 495: Techniques of Pharmaceutical Sales
Phad 496: Principles of Pharmaceutical Marketing
Phad 497: Personal Finance
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 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
Phad 795: Special Topics in Pharmacy Administratio
Phad 796: Pharmacoepidemiology
Phad 797: Dissertation
Pharmacy Practice

- 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
- Info 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
- Neon 591: Neonatology Advanced Pharmacy Practice E
- Neur 591: Neurology Clerkship
- Nuc 591: Nuclear Medicine Advanced Pharmacy Pract
- Nutr 591: Nutrition Clerkship
- Oncd 591: Oncology Clerkship
- Pain 591: Pain Management Advanced Pharmacy Practi
- Peds 591: Pedagogy Advanced Practice Experience
- Peds 591: Pediatric Clerkship
- Phcy 470: Distributive Intro Pharmacy Practice Exp
- Phcy 471: Institutional Immersion IPPE I
- Ph 591: Pharmacokinetics Clerkship
- Pmtm 591: Pharmacy Medication Therapy Management
- Pois 591: Poison Control Clerkship
- Pret 350: Information Skills in Pharmacy Practice
- Pret 353: Practice Skills Laboratory I
- Pret 354: Practice Skills Laboratory II
- Pret 357: Advocacy and Leadership in Pharmacy
- Pret 358: Geriatrics
- Pret 359: Tobacco Cessation Education
- Pret 360: Personal Time Mngment for Pharm Students
- Pret 361: Vaccine-preventable Illnesses/Travel med
- Pret 362: Veterinary Pharmacy
- Pret 363: Pharmacy, Microcontrollers & the Interne
- Pret 450: Pharmacy Practice I
- Pret 451: Pharmacy Practice II
- Pret 455: Practice Skills Laboratory III
- Pret 456: Practice Skills Laboratory IV
- Pret 470: Introduction to Nuclear Pharmacy
- Pret 477: Institutional Pharmacy Practice II
- Pret 478: Community Pharmacy Practice II
- Pret 480: Introduction to Global Health & Pharmacy
- Pret 520: Case Management I
- Pret 521: Case Management II
- Pret 522: Case Management III
- Pret 523: Case Management IV
- Pret 524: Case Management V
- Pret 525: Case Management VI
- Pret 526: Case Management VII
- Pret 527: Case Management VIII
• Prct 528: Case Management IX  
• Prct 529: Case Management X  
• Prct 530: Clinical Skills Evaluation I  
• Prct 531: Clinical Skills Evaluation II  
• Prct 532: Clinical Skills Evaluation III  
• Prct 541: Problems in Clinical Pharmacy  
• Prct 542: 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 553: Clinical Externship (community)  
• Prct 554: Clinical Externship (institutional)  
• Prct 555: Pharmaceutical Care I: Knowledge & Comp  
• 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: Seminar Skills Dev for Health Prof  
• Prct 567: Seminar Skills Dev for Health Prof II  
• Prct 568: Pharmaceutical Care IV: Group  
• Prct 577: Practice Skills Laboratory V  
• Prct 586: Adult Medicine Clerkship  
• Prct 587: Ambulatory Care Clerkship  
• Prct 591: Elective Clerkship  
• Prct 592: Elective Clerkship  
• Prct 593: Elective Clerkship  
• 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