# 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
- Medc 417: Intro to the Principles of Med Chem II
- Medc 418: 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 621: Theory of Technology Development
- Medc 622: Early Stages of Technology Development
- Medc 623: Fostering Creative Environments
- Medc 625: Applied Igt problems
- Medc 630: Pharmaceutical Protein Design & Develop
- Medc 697: Thesis
- 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
- Medc 797: Dissertation
- Phcg 320: Special Topics in Oceans & Human Health
- Phcg 321: Pathogenesis of Infectious Diseases
- 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
- Phcg 697: Thesis
- Phcg 797: Dissertation
- Phcl 202: Environmental Health Perspectives
- Phcl 340: Animal Cells: Testing New Drugs
- Phcl 341: Human Pathophysiology I
- Phcl 342: Human Pathophysiology II
- Phcl 343: Biochemical Foundations of Therapeutics
- Phcl 344: Physiological Foundation of Therapeutics
- Phcl 345: Nutritional Pharmacology
- Phcl 346: Immunological Basis for Therapeutics
- Phcl 347: Introduction to Environmental Toxicology
- Phcl 348: Principles of Life Science Research
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phcl 349</td>
<td>Specialized Topics in Environ. Health</td>
</tr>
<tr>
<td>Phcl 351</td>
<td>Drugs and Human Performance</td>
</tr>
<tr>
<td>Phcl 352</td>
<td>Case Studies in Immunology</td>
</tr>
<tr>
<td>Phcl 381</td>
<td>Introduction to Toxicology</td>
</tr>
<tr>
<td>Phcl 382</td>
<td>Fundamentals of Cancer</td>
</tr>
<tr>
<td>Phcl 440</td>
<td>Physiologic Case Study for Therapeutics</td>
</tr>
<tr>
<td>Phcl 441</td>
<td>Pharmacology: Novel Drugs in Clin Trials</td>
</tr>
<tr>
<td>Phcl 442</td>
<td>Clinical Toxicology</td>
</tr>
<tr>
<td>Phcl 443</td>
<td>Basic and Clinical Pharmacology I</td>
</tr>
<tr>
<td>Phcl 444</td>
<td>Basic and Clinical Pharmacology II</td>
</tr>
<tr>
<td>Phcl 445</td>
<td>Nutritional Pharmacology</td>
</tr>
<tr>
<td>Phcl 501</td>
<td>Principles of Life Science Research</td>
</tr>
<tr>
<td>Phcl 503</td>
<td>Lab Meth in Pharmacology &amp; Toxicology I</td>
</tr>
<tr>
<td>Phcl 504</td>
<td>Lab Meth in Pharmacology &amp; Toxicology II</td>
</tr>
<tr>
<td>Phcl 505</td>
<td>Modern Phcl: Novel Drugs Clinical Trials</td>
</tr>
<tr>
<td>Phcl 541</td>
<td>Problems in Pharmacology</td>
</tr>
<tr>
<td>Phcl 547</td>
<td>Introduction to Environmental Toxicology</td>
</tr>
<tr>
<td>Phcl 563</td>
<td>Introductory Pharmacology I</td>
</tr>
<tr>
<td>Phcl 564</td>
<td>Introductory Pharmacology II</td>
</tr>
<tr>
<td>Phcl 569</td>
<td>Drug Abuse Education</td>
</tr>
<tr>
<td>Phcl 581</td>
<td>Introduction to Toxicology</td>
</tr>
<tr>
<td>Phcl 586</td>
<td>Receptors and Channels</td>
</tr>
<tr>
<td>Phcl 611</td>
<td>Teaching in Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Phcl 612</td>
<td>Teaching in Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Phcl 641</td>
<td>Unified Lab in Pharm, Tox &amp; Phys Chem</td>
</tr>
<tr>
<td>Phcl 642</td>
<td>Unified Lab in Pharm, Tox &amp; Phys Chem</td>
</tr>
<tr>
<td>Phcl 643</td>
<td>Seminar: Curr Topics in Pharm &amp; Tox</td>
</tr>
<tr>
<td>Phcl 651</td>
<td>Directed Studies in Pharm and Tox</td>
</tr>
<tr>
<td>Phcl 652</td>
<td>Directed Studies in Pharm and Tox</td>
</tr>
<tr>
<td>Phcl 661</td>
<td>Advanced Physiology</td>
</tr>
<tr>
<td>Phcl 662</td>
<td>Advanced Physiology</td>
</tr>
<tr>
<td>Phcl 663</td>
<td>General Pharmacology I</td>
</tr>
<tr>
<td>Phcl 665</td>
<td>Human Neurobiology</td>
</tr>
<tr>
<td>Phcl 668</td>
<td>Externship in Pharmacology</td>
</tr>
<tr>
<td>Phcl 669</td>
<td>Physiological Chemistry</td>
</tr>
<tr>
<td>Phcl 675</td>
<td>Gen Princ of Pharmacology &amp; Toxicology I</td>
</tr>
<tr>
<td>Phcl 676</td>
<td>Gen Princ - Pharmacology &amp; Toxicology II</td>
</tr>
<tr>
<td>Phcl 677</td>
<td>Advanced Topics</td>
</tr>
<tr>
<td>Phcl 679</td>
<td>Methods in Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Phcl 681</td>
<td>Sel Topics - Pharmacology and Toxicology</td>
</tr>
<tr>
<td>Phcl 685</td>
<td>Externship in Toxicology</td>
</tr>
<tr>
<td>Phcl 697</td>
<td>Thesis</td>
</tr>
<tr>
<td>Phcl 797</td>
<td>Dissertation</td>
</tr>
</tbody>
</table>

**Pharmaceutics & Drug Delivery**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phar 330</td>
<td>Pharmaceutical Calculations</td>
</tr>
<tr>
<td>Phar 331</td>
<td>Basic Pharmacetics I</td>
</tr>
<tr>
<td>Phar 332</td>
<td>Basic Pharmacetics II</td>
</tr>
<tr>
<td>Phar 334</td>
<td>Biopharmaceutics and Pharmacokinetics</td>
</tr>
<tr>
<td>Phar 335</td>
<td>Clinical Laboratory Data Analysis</td>
</tr>
<tr>
<td>Phar 432</td>
<td>Concepts in Pharmaceutical Biotechnology</td>
</tr>
<tr>
<td>Phar 433</td>
<td>Industrial Pharmacy</td>
</tr>
<tr>
<td>Phar 435</td>
<td>Pharmaceutical Stability</td>
</tr>
<tr>
<td>Phar 436</td>
<td>Product Development</td>
</tr>
<tr>
<td>Phar 541</td>
<td>Problems in Pharmaceutics</td>
</tr>
<tr>
<td>Phar 542</td>
<td>Problems in Pharmaceutics</td>
</tr>
<tr>
<td>Phar 543</td>
<td>Seminar in Current Pharm. Topics</td>
</tr>
<tr>
<td>Phar 544</td>
<td>Seminar in Current Pharm. Topics</td>
</tr>
<tr>
<td>Phar 545</td>
<td>Biopharmaceutics and Pharmacokinetics</td>
</tr>
<tr>
<td>Phar 547</td>
<td>Veterinary Pharmaceutics</td>
</tr>
</tbody>
</table>
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 Administration
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
- Infld 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
- Nucl 591: Nuclear Medicine Advanced Pharmacy Pract
- Nutr 591: Nutrition Clerkship
- Onc 591: Oncology Clerkship
- Pain 591: Pain Management Advanced Pharmacy Practi
- Peds 591: Pediatrics Advanced Practice Experience
- Peds 591: Pediatric Clerkship
- Pcy 470: Distributive Intro Pharmacy Practice Exp
- Pcy 471: Institutional Immersion IPPE I
- Pcy 510: Community Pharmacy Practice II
- Pkin 591: Pharmacokinetics Clerkship
- Pmtm 591: Pharmacy Medication Therapy Management
- Pois 591: Poison Control Clerkship
- Pct 350: Information Skills in Pharmacy Practice
- Pct 353: Practice Skills Laboratory I
- Pct 354: Practice Skills Laboratory II
- Pct 357: Advocacy and Leadership in Pharmacy
- Pct 358: Geriatrics
- Pct 359: Tobacco Cessation Education
- Pct 360: Personal Time Mngment for Pharm Students
- Pct 361: Vaccine-preventable Illnesses/Travel med
- Pct 362: Veterinary Pharmacy
- Pct 363: Pharmacy, Microcontrollers & the Interne
- Pct 450: Pharmacy Practice I
- Pct 451: Pharmacy Practice II
- Pct 455: Practice Skills Laboratory III
- Pct 456: Practice Skills Laboratory IV
- Pct 470: Introduction to Nuclear Pharmacy
- Pct 471: Advanced Topics in Cardiology
- Pct 472: Life After Graduation
- Pct 477: Institutional Pharmacy Practice II
- Pct 490: Introduction to Global Health & Pharmacy
- Pct 520: Case Management I
- Pct 521: Case Management II
- Pct 522: Case Management III
- Pct 523: Case Management IV
- Pct 524: Case Management V
- Pct 525: Case Management VI
• Prct 526: Case Management VII
• Prct 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: Pers & Prof Dev - Seminar Skills
• Prct 567: Pers & Prof Dev - NAPLEX Review
• 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