Division of Medicinal Chemistry and Pharmacognosy  
College of Pharmacy, The Ohio State University

Computational Medchem Track Graduate Course Requirements

Biochemistry
- PHR 6010 - Biopharmacy I (2 credits)
- PHR 6020 - Biopharmacy II (2 credits)
- BIOCHEM 6761 - Advanced Biochemistry: Macromolecular Structure and Function (3 credits)

Chemistry
- CHEM 6410 - Basic Organic Reaction Mechanisms (1.5 credits)
- CHEM 6420 - Stereochemistry and Conformational Analysis (1.5 credits)
- CHEM 7470 - Computational Chemistry (1.5 credits)

Medicinal Chemistry
- PHR 7350 - Drug Discovery and Drug Design (2 credits)
- PHR 8380 - Structure-based/Computer-aided Molecular Design (2 credits)

Three electives from the follow courses
- IBGP 7300 - Biomedical Informatics I (2 credits)
- CHEM 7550 - Statistical Thermodynamics (3 credits)
- CSE 5231 - Software Engineering Techniques (2 credits)
- CSE 5361 - Numerical Methods (3 credits)
- PHR 7370 - Advanced Pharmaceutical Analysis (2 credits)
- PHR 7891 - Chromatographic Methods (2 credits)
- PHR 8350 - Advanced Medicinal Chemistry I (2 credits)
- PHR 8360 - Advanced Medicinal Chemistry II (2 credits)
- PHR 8370 - Chemotherapy of Infectious Diseases (2 credits)
- BIOCHEM 6706 - Advanced Biological Chemistry Lab (4 credits)

Note: The courses listed above are in addition to the course requirements common to all graduate students in the Division of Medicinal Chemistry and Pharmacognosy, namely PHR 8520 (Research Ethics) and PHR 8880/8881 (College and Division Seminars). One enrollment in 8880 or 8881 is required per semester while on campus (with three 8880.01 or 8881.01 enrollments prior to graduation).