

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

## Synthetic Med. Chem. Track Graduate Course Requirements

*(updated 08/02/18)*

### **Biochemistry:**

PHR 8320 - Biomedical Chemistry for Graduate Students (5 credits)

### **Organic Chemistry:**

CHEM 6410 - Organic Synthesis I (1.5 credits)

### **Medicinal Chemistry:**

PHR 7350 - Drug Discovery and Drug Design (2 credits)

PHR 7351 - Special Topics in Medicinal Chemistry and Pharmacognosy (2 credits)

PHR 7370 - Advanced Pharmaceutical Analysis (2 credits)

### **Two Chemistry electives from the following:**

CHEM 6420 - Physical Organic I (1.5 credits)

CHEM 6430 - Organic Synthesis II (1.5 credits)

CHEM 6440 - Physical Organic II (1.5 credits)

CHEM 7440 - Physical Organic III (1.5 credits)

CHEM 7450 - Synthesis III (Organometallics) (1.5 credits)

CHEM 7470 - Computational Chemistry (1.5 credits)

### **One Medicinal Chemistry elective from the following:**

PHR 7891 - Chromatographic Methods (2 credits, Lab)

PHR 7893 - Phytochemical Analysis of Natural Products (2 credits, Lab)

PHR 8380 - Structure-based Computer-aided Molecular Design (2 credits)

PHR 8390 - Recent Advances in Pharmacognosy (2 credits)

PHR 8510 - Advanced Pharmacognosy (2 credits)

Other courses with approval of advisor and advisory committee

**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).