M.S. Program – Pharmacology & Toxicology

**August Orientation**
- Welcome to Department
- Diagnostic Exam
- Orientation:
  - Certifications & Training
  - Meet potential mentors
  - Overview of courses and program
- Diagnostic Exam Review

**Fall semester**
- Lab rotations I & II
- Submit Research Plan
- Attend departmental seminars
- Choose potential mentor
- Research Report

**Spring semester**
- Lab rotation III & IV
- Submit Research Plan
- Finalize mentor choice
- Attend departmental seminars
- Present mini-seminar
- Research Report

**Summer semester**
- Concentrated research
- Submit Research Plan
- Attend departmental seminars
- Form M.S. Committee
- Submit summer research abstract to Research/Louisville
- Attend departmental seminars
- Present summer research poster at Research/Louisville
- Meeting with M.S. Committee
- Research Report

**Fall semester**
- Attend departmental seminars
- Present & defend M.S. Thesis
- Submit thesis to SIGS
- M.S. Defense
- Conferring of M.S. degree
- CONGRATULATIONS!!

**Spring semester**
- Register as Masters Candidate
- Apply for M.S. degree
- Attend departmental seminars
- Finalize thesis in concert with your mentor
- Submit M.S. Thesis to Committee two weeks before defense
- Present & defend M.S. Thesis
- Submit thesis to SIGS
- M.S. Defense
- Conferring of M.S. degree
- CONGRATULATIONS!!

**Required didactic courses**
- Principles of Drug Action: PHTX 660 (2)
- Advanced Biochemistry I: BIOC 645 (4)
- Methods & Analysis Biomedical Sciences: PHTX 630 (2)
- Selected Topics in Physiology & Biophysics: PHEB 636 (2)
- Neuropharmacology: PHTX 655 (2)
- Biochemistry II: BIOC 647 (4)
- Cell Biology: BIOC 667 (3)
- Research Methods III & IV: PHTX 674 & 675 (2)
- Scientific Writing: PHTX 625 (2)
- Cardiovascular & Renal Pharmacology: PHTX 656 (2)
- Endocrine & Metabolic Pharmacology: PHTX 657 (2)
- Selective Toxicity & Chemotherapy: PHTX 658 (1)
- Research Ethics: BIOC 630 (3)
- Research: PHTX 619 (1)
- Seminar – grade: PHTX 660 (1)
- Research Ethics: BIOC 630 (3)
- Research: PHTX 619 (4)
- Seminar – pass/fail: PHTX 660 (1)

**Other courses**
- Research: PHTX 619 (4)
- Seminar – pass/fail: PHTX 660 (1)