## M.S. Program – Pharmacology and Toxicology

August Orientation	Fall semester First year	Spring semester First year	Summer after 1st year	Fall semester Second year	Spring/Summer Second year
Welcome to Department Diagnostic Exam Orientation:	Lab rotations I & II  Attend departmental seminars  Choose potential mentor  Brief research presentation end of rotations 1 & 2  Brief Research Report due end of rotations 1 & 2  Written qualifying exam I (end of semester)	Lab rotation III & IV (if needed) Finalize mentor choice Attend departmental seminars Present mini-seminar Brief Research Report (due end of semester) Written qualifying exam II (end of semester)	Concentrated research Attend departmental seminars Submit summer research abstract to Research!Louisville	Form Research Committee  Present summer research poster at Research!Louisville  Brief research presentation (end of semester)  Brief Research Report (due end of semester)  Written qualifying exam III (end of semester)  Attend departmental seminars	Register as Masters Candidate Apply for M.S. degree Attend departmental seminars Submit MS Thesis and Dissertation Research Proposal to Committee two weeks before defense M.S. defense/Dissertation Proposal defense/Doctoral oral qualifying exam Revise thesis and/or proposed doctoral research plan if needed Submit thesis to SIGS Awarding of M.S. degree
Required didactic courses	Pharmacology I (3) Biochemistry I (4) Toxicology I (3) Physiological Concepts for Pharmacology (2)	Pharmacology II (3) Cell Biology (3) Toxicology II (3) Research Ethics (1)	Data Analysis (2) Electives ()	Scientific Writing (2) Electives (X)	Electives (X)
Other	Rotations/Research (1) Seminar (1) – pass/fail	Rotations/Research (1) Seminar (1) – grade	Research (4)	Research (9-X) Seminar (1) – pass/fail	