M.S./Ph.D. Program - Pharmacology and Toxicology

Seminar (1) – pass/fail

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

Final semester

Apply for Ph.D. degree

Years 3 & 4

(& 5 if needed)

Register as Doctoral Candidate

Attend departmental seminars

Annual presentation of research

at Research!Louisville and at

Write up and publish papers

regional/national meetings

Concentrated research

least annually

Finalize dissertation in concert with your mentor Meet with Research Committee at

> Submit dissertation to Research Committee two weeks before defense

Ph.D. Defense

Revise dissertation if needed

Get Committee signatures and submit dissertation to SIGS

Conferring of Ph.D. degree

CONGRATULATIONS!!

courses Other

Seminar (1) – pass/fail

Seminar (1) - grade

Biochemistry II (4)(optional)