

Pharmacology & Toxicology Ph.D. Curriculum

Course	Year	Term	Hours	Course	Course
				Title	Co-Curricular Requirements
BIOC 645	AY1	Fall	4	Biochemistry I	Diagnostic Exam
PHTX 660	AY1	Fall	4	Principles of Drug and Chemical Action	Receive research descriptions from mentors. Meet to discuss.
PHTX 672/ PHTX 673	AY1	Fall	1 + 1	Research Methods in Pharmacology and Toxicology I & II	Rotation selection by August 15
PHTX 619	AY1	Fall	2	Research in Pharmacology [grade assigned by Grad Committee]	Rotation 1 – Report and lab book Rotation 2 – Report and lab book
Total	AY1	Fall	12		Qualifying Exam I.A
<i>Mentor Selection by end of semester is ideal</i>					
PHTX 655	AY1	Spring	2	Neuropharmacology	Expectation of full time laboratory participation when not in classroom
BIOC 647	AY1	Spring	4	Biochemistry II	
MBIO 667	AY1	Spring	3	Cell Biology	
PHTX 674/ PHTX 675	AY1	Spring	1 + 1	Research Methods in Pharmacology and Toxicology III & IV	
PHTX 619	AY1	Spring	1	Research in Pharmacology [grade assigned by Grad Committee]	
PHTX 606	AY1	Spring	1	Pharmacology & Toxicology Seminar	
BIOC 603	AY1	Spring	1	Ethics	Qualifying Exam I.B
Total	AY1	Spring	14		With mentor, develop and submit individual curriculum for approval
PHTX 619	AY1	Summer	6	Research in Pharmacology [grade assigned by Grad Committee]	Research – semester report and lab book
Total	AY1	Summer	6		
PHTX 625	AY2	Fall	2	Scientific Writing	With mentor, create Dissertation Committee, have approved
PHTX 658	AY2	Fall	1	Selective Toxicity and Chemotherapeutics	Expectation of participation in regional forum (e.g. Research!Louisville , SOT)
PHTX 656	AY2	Fall	2	Cardiovascular and Renal Pharmacology	
PHTX 657	AY2	Fall	2	Endocrine and Metabolic Pharmacology	
PHTX 619	AY2	Fall	1	Research in Pharmacology [grade assigned by Grad Committee]	<u>Submission of outline/draft of research plan as research report</u>
PHTX 606	AY2	Fall	1	Pharmacology & Toxicology Seminar	
	AY2	Fall	3	Approved Elective	Qualifying Exam I.C
Total	AY2	Fall	12		
PHTX 619	AY2	Spring	5	Research in Pharmacology** [grade assigned by Grad Committee]	Qualifying Exam II – Research Plan as Grant Proposal (Due April 1)
PHTX 606	AY2	Spring	1	Pharmacology & Toxicology Seminar	Each year, candidates will present research finding and progress report to department. Dissertation committee will report concerning progress. Expectation of annual national / international presentation.
	AY2	Spring	6	Approved Electives*	
Total	AY2	Spring	12		DEFENSE of Proposal
Promotion to Candidacy					Expectation of submission of abstract to national of international meeting by end of AY2
Electives					*Example Electives
Various	AYx	Fall	If appropriate, candidates may take elective courses for enrichment	Immunology (from Med Core) Pathology (from Med Core) ADV EUKARYOTIC GENETICS MOLECULAR BIOLOGY MOLECULAR TOXICOLOGY	PROTEIN STRUCTURE & FUNCTION INTRO IMMUNOLOGY MOLECULAR MICROBIOLOGY INTEGRATED SYST. PHYSIOL MOLECULAR NEUROSCIENCE
Various	AYx	Spring			
AY3-AY5 Research followed by Presentation and Defense of Doctoral Dissertation					
TOTAL HOURS			54 hrs	[38 classroom + 16 research / seminar/tutorial/lab]	