

## **DEPARTMENT OF PHARMACOLOGY M.S. Degree Requirements Checklist**

1. Didactic Course Credits:  A. Required Courses:  GS616 Foundations of Molecular and Cellular Biology  MPHP602-002 Principles of Biostatistics  GS637 Responsible conduct of Science Research (Research Ethics)  GS892 Introduction to the presentation and Analysis of  Scientific Literature: Journal club  PHA645 Pharmacology Seminar (one per academic year)  Credit  Year  Complete  Year  Complete  1  PHA645 Pharmacology Seminar Collular Biology  4  —————————————————————————————————	Grade	Year Completed		Course Credits:	Didactic Co
GS616 Foundations of Molecular and Cellular Biology 4  MPHP602-002 Principles of Biostatistics 3  GS637 Responsible conduct of Science Research (Research Ethics) 2  GS892 Introduction to the presentation and Analysis of Scientific Literature: Journal club 1	·				
MPHP602-002 Principles of Biostatistics 3  GS637 Responsible conduct of Science Research (Research Ethics) 2  GS892 Introduction to the presentation and Analysis of Scientific Literature: Journal club 1				d Courses:	A. Required
GS637 Responsible conduct of Science Research (Research Ethics) 2 GS892 Introduction to the presentation and Analysis of Scientific Literature: Journal club 1			4	Foundations of Molecular and Cellular Biology	GS616
GS892 Introduction to the presentation and Analysis of Scientific Literature: Journal club  1			3	02 Principles of Biostatistics	MPHP602-002
Scientific Literature: Journal club			2	Responsible conduct of Science Research (Research Ethics)	GS637
		<del></del>		Introduction to the presentation and Analysis of	GS892
PHA645 Pharmacology Seminar (one per academic year) 0			1	Scientific Literature: Journal club	
			0	Pharmacology Seminar (one per academic year)	PHA645
B. Elective Advanced Pharmacology Courses:				e Advanced Pharmacology Courses:	B. Elective
PHA610 Principles of Pharmacology* 1			1		
PHA617 Methods of Pharmacology Research 2			2	·	PHA617
PHA612 Cardiovascular Physiology and Pharmacology* 1			1	Cardiovascular Physiology and Pharmacology*	PHA612
PHA602 Cell Physiology of Excitable cells* 2			2	Cell Physiology of Excitable cells*	PHA602
-			2	Apoptosis and Cancer Pharmacology*	PHA615
PHA615 Apoptosis and Cancer Pharmacology* 2 ————			4	Current Topics in Pharmacology*	PHA618
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			1 1	Principles and Practices of Drug Discovery and Development*	PHA622

Minimum of 20 didactic course credits are required for all M.S. students in the Department of Pharmacology. Of the 20 didactic course credits, GS616, MPHP602-002, GS637, GS892, and PHA645 are required. All M.S. students are also required to take a minimum of 4 advanced Pharmacology Course credits (including PHA610) indicated with an asterisk. Students can take other elective courses offered by the Department of Pharmacology or by other Departments to fulfill the didactic course requirement. It is suggested that students take Methods of Pharmacology Research (PHA617) in the first year (no more than 4 credits).

## 2. Research Credits

Minimum 10 research credits are required for Pharmacology M.S. students.

PHA 700 Research in Pharmacology