



Master of Science in Pharmacy (Industrial Pharmacy)

FIRST YEAR				
First Semester				
	Course Code	Course Title	Credits	Remarks
	Phar 220	Institutional Pharmacy Management	2	2 units lec
	Phar 299	Research Methods in Pharmacy	3	1 unit lec, 2 units lab
	IP 202	Advanced Pharmaceutical Manufacturing	2	2 units lec;
	IP 205	Advanced Quality Assurance of Pharmaceuticals	2	2 units lec; Prerequisite: IP 131
	Phar 297	Graduate Seminar	1	1 unit
	Elective	see list of qualified electives/cognates	3	
		<i>Total:</i>	13	
Second Semester				
	Phar 275	Legal, Regulatory and Ethical Issues in Pharmacy	2	2 units lec
	HP 221	Instructional Design in Health Sciences Courses	3	3 units lec (cross-enroll at NTTCC)
	IP 222	Applied Pharmacokinetics	2	2 units lec;
	IP 235	Pharmaceutical Plant Design	2	2 units lec
	IP 270	Trends in Pharmaceutical Product Development	2	2 units lec; Prerequisite: IP 170 or equivalent
	Phar 297.1	Special Topics in Pharmacy Practice	1	1 unit lec
	IP 298	Special Problems in Industrial Pharmacy	3	3 units lec
	Elective	see list of qualified electives/cognates	2	
		<i>Total:</i>	17	
SECOND YEAR				
First Semester				
	Course Code	Course Title	Credits	Remarks
	Phar 300.1	Thesis Proposal	3	
		<i>Total:</i>	3	
Second Semester				
	Phar 300.2	Thesis Implementation	3	
		<i>Total:</i>	3	
		Grand Total:	36	
Qualified Electives/Cognates				
	Ph Ch 202	Polyketides, Flavonoids and Terpenoids	3	2 units lec, 1 unit lab
	Ph Ch 204	Essential Oils	3	2 units lec, 1 unit lab
	Ph Ch 230	Analysis of Phytomedicinals	3	2 units lec, 1 unit lab
	Ph Ch 241	Molecular Pharmacology	2	2 units lec
	Ph Ch 245	Environmental Toxicology in Pharmacy	2	2 units lec
	Ph Ch 281	Pharmaceutical Organic Synthesis	2	2 units lec
	IP 241	Advanced Biopharmaceutics	2	2 units lec; Prerequisite: IP 141