UNIVERSITY OF GEORGIA
College of Pharmacy

BSBchE/MS Pharmacy (Non-thesis)
Effective FALL 2025

YEAR FOUR

Fall Courses		Hours
BCHE 4910	BCHE Capstone Design I	2
BCHE 6550*	Bioprocess Design and Simulation	3
PMCY 6500*	Pharm Drug Development	3
XXXX	Elective	3
XXXX	Elective	3
Total		**6/14**

Spring Courses		Hours
BCHE 4180L	Adv Biochem Engineering Lab	3
BCHE 4911	Capstone Design II	2
BCHE 4360	Biochemical Eng Process Control	3
BCHE 6650*	Animal Cell Biomanufacturing	3
PMCY 6510*	Adv Drug Delivery Systems	3
XXXX	Elective	1
Total		**6/15**

*For DD program - only 12 credit hours will be counted towards MS, you can choose the remaining as 4XXX level

Summer Courses		Hours
PHRM 7080	Pharmaceutical Sciences Internship	3
Total		**3**

YEAR FIVE

Fall Courses			Hours
BCHE 6520	Biochemical Separation Process		3
PHRM 6800	Applied Project in Pharm Biomed Sci		3
PHRM 7230E	Ethical Issues in Research	**OR**	3
BIOE 6780	Regulations and Ethics of BIOE		
PHAR 6010E	Intro to Drugs, Biologics Dev FDA		4
PHAR 6120E	Process Control & Validation		3
GRSC 7001	GradFIRST Seminar		1
Total			**17**

Spring Courses		Hours
PMCY 6600	Biological Therapeutics	3
PHAR 6030E	Current Good Manufacturing Practices	4
PHRM 6950	Applied Project Writing and Defense	3
PMCY XXXX	Elective Group 1	2
XXXX	Elective Group 2	3
Total		**15**

TOTAL CREDIT HOURS FOR MS - 6 + 6 + 3 + 17 + 15 = 47

Selection of a major advisor and PHRM 6800 Master's Applied Project needs to be discussed with the Major Advisor in YEAR FOUR. MS project work to be completed and presented in PHRM 6950 Spring Year FIVE.

Elective Offerings (Must choose one elective from each group)

Group 1

PMCY 6410E (2 credits) – Robotics in Drug Discovery
PMCY 6420E (2 credits) – Drug Discovery and Toxicology
PMCY 6430E (2 credits) – Biopharm. and PK
PHAR 6xxxE (2 credits) – Reg. Sci. Cell Manufacturing

Group 2

BIOE 6615 (3 credits) – Soft Materials
BIOE 6740 (3 credits) – Biomaterials
BCHE 8159 (3 credits) – Heterogeneous Reactor Kinetics
BCHE 8210 (3 credits) – Fermentation Engineering