

MASTER OF PHARMACEUTICAL ENGINEERING

Curriculum

Code	Title	Credit Hours
Core Courses		(12)
CHE 506	Entrepreneurship & IP Mgmt	3
CHE 577	Bioprocess Engineering	3
CHE 583	Pharmaceutical Engineering	3
CHE 585	Drug Delivery	3
Elective Courses		(18)
Select 18 credit hours from the following courses:		18
BIOL 515	Molecular Biology	3
BME 502	Intro to Reg Sci Engr	3
BME 516	Biotechnology for Engineers	3
BME 517	Tech for Treatment of Diabetes	3
BME 518	Reaction Kinetics for BME	3
BME 524	Quant Aspects Cell/Tissue Engg	3
BME 525	Introduction to Medical Device	3
BME 533	Biostatistics	3
CHE 426	Statistical Tools Engineers	3
CHE 501	Transport Phenomena	3
CHE 508	Process Dsgn Optimization	3
CHE 514	Process Analytical Technology	3
CHE 516	Tech for Treatment of Diabetes	3
CHE 525	Chemical Reaction Engineering	3
CHE 535	Applctn Math Cheml Engrg	3
CHE 538	Polymerization Reaction Engrg	3
CHE 545	Metabolic Engineering	3
CHE 560	Ststcl Qlty Process Control	3
CHE 580	Biomaterials	3
CHE 582	Intfcl Clldl Phnmna Applctn	3
CHE 593	Seminar in Chemical Engrg (may be taken twice)	1
CHE 594	Special Projects	3-6
CHEM 518	Understanding ICH Guidelines	3
CHEM 519	Good Manufacturing Practices	3
CHEM 543	Analytical Chem in Pharm Labs	2
CHEM 700	Practical Lab Analytical Chem	2
MMAE 556	Nano Manufacturing	3
MMAE 561	Solidification & Crystal Grwth	3
Total Credit Hours		30