

REQUIRED CORE COURSES – 6 credit hours			
CHEM 6510	Quantum Mechanics & Spectroscopy	1.5 ch	
CHEM 6520	Thermodynamics	1.5 ch	
CHEM 6530	Kinetics	1.5 ch	
CHEM 6540	Introduction to Electronic Structure	1.5 ch	
		Total = 6 credit hours	
9 CREDIT HOURS OF 7000-LEVEL PHYSICAL CHEMISTRY COURSES			
CHEM 7520 and CHEM 7550 are required.			
Physical Division students must take <i>either</i> CHEM 7530 or CHEM 7540.			
CHEM 7520	Advanced Quantum Mechanics	3 ch	
CHEM 7530	Advanced Molecular Spectroscopy	3 ch	
CHEM 7540	Chemical Dynamics	3 ch	
CHEM 7550	Statistical Thermodynamics	3 ch	
		Total >= 9 credit hours	
3 ADDITIONAL GRADUATE CREDIT HOURS FROM OUTSIDE OF THE PHYSICAL DIVISION			
Course Number	Course Name	# Credit Hours	Check if completed
1.			
2.			
		Total >= 3 credit hours	
Total credit hours of graded graduate lecture classes >= 18 credit hours			
OTHER REQUIRED COURSES			
CHEM 6780	Faculty Research Presentations	1 credit hour	
CHEM 6781	Laboratory Safety	1 credit hour	
CHEM 6782	Ethics in Scientific Research	1 credit hour	
CHEM 8895	Physical Divisional Seminar	1 credit hour; repeatable each Autumn and Spring semester	
CHEM 8998	Non-Dissertation Research	1-15 credit hours; First Autumn semester only	
CHEM 8999	Dissertation Research	1-15 credit hours; repeatable each semester	