

CCB - Computational Chemistry, PhD Degree Requirements and Recommended Timeline

	YEAR 1		YEAR 2		YEARS 3-5
	Fall (12 units)	Spring (12 units)	Fall (12 units)	Spring (12 units)	
CORE COURSES	CHEM 212 (3 units) <i>Molecular & Solid State Quantum Chemistry</i>	QSB 281 (4 units) <i>Molecular Dynamics & Biomolecular Simul</i>			
	and	or			
	CHEM 214 (3 units) <i>Statistical Thermodynamics</i>	CHEM 225 (3 units) <i>Molecular Electronic Structure</i>			
ELECTIVES		Graduate Elective (3-4 units) <i>to be approved by Educational Policy Committee</i>			
SEMINARS	CHEM 291 (1 unit) <i>Chemistry Seminar</i>	CHEM 291 (1 unit) <i>Chemistry Seminar</i>	CHEM 291 (1 unit) <i>Chemistry Seminar</i>	CHEM 291 (1 unit) <i>Chemistry Seminar</i>	
OTHER COURSES	QSB 294 (1 unit) <i>Responsible Conduct of Research</i>				
RESEARCH	CHEM 295 (4 units) <i>Graduate Research (1st Lab Rotation)</i>	CHEM 295 (3-5 units) <i>Graduate Research (2nd Lab Rotation)</i>	CHEM 295 (11 units) <i>Graduate Research</i>	CHEM 295 (11 units) <i>Graduate Research</i>	CHEM 295 (12 units) <i>Graduate Research (each semester)</i>
TIMELINE FOR ADDITIONAL REQUIREMENTS	Select Advisor <i>by end of 2nd semester</i>	Assemble Committee <i>by end of 2nd semester</i>	Pass Qualifying Exam <i>may attempt 2 times, must pass by end of 2nd year</i>		
	TA Assignment <i>must serve at least one semester</i>		Advance to Candidacy Annual Committee Meetings		
	Pass Preliminary Exam (offered twice annually) <i>may attempt 4 times, must pass by start of 4th semester</i>		Publish peer-reviewed manuscript(s) and/or Present work at scientific conference(s) <i>to be presented at least once per year</i>		Apply for Graduation Pass Dissertation Defense Submit Manuscript