

CBC - Physical Chemistry, PhD Degree Requirements & Recommended Timeline

	YEAR 1		YEAR 2		YEARS 3-5
	Fall (12 units)	Spring (12 units)	Fall (12 units)	Spring (12 units)	
<b>CORE COURSES (choose 3)</b>	<b>CHEM 212 (3 units)</b> <i>Molecular &amp; Solid State Quantum Chemistry</i>	<b>CHEM 215 (3 units)</b> <i>Chemical Kinetics</i>			
	and/or	and/or			
	<b>CHEM 214 (3 units)</b> <i>Statistical Thermodynamics</i> (or PHYS 212 Statistical Mechanics)	<b>CHEM 231 (3 units)</b> <i>Molecular Spectroscopy</i>			
<b>ELECTIVES</b>	<b>Graduate Elective (3-4 units)</b> <i>to be approved by Educational Policy Committee</i>				
<b>SEMINARS</b>	<b>CHEM 291 (1 unit)</b> <i>Chemistry Seminar</i>	<b>CHEM 291 (1 unit)</b> <i>Chemistry Seminar</i>	<b>CHEM 291 (1 unit)</b> <i>Chemistry Seminar</i>	<b>CHEM 291 (1 unit)</b> <i>Chemistry Seminar</i>	
<b>OTHER COURSES</b>	<b>QSB 294 (1 unit)</b> <i>Responsible Conduct of Research</i>				
<b>RESEARCH</b>	<b>CHEM 295 (3-8 units)</b> <i>Graduate Research</i> <b>(1st Lab Rotation)</b>	<b>CHEM 295 (4-5 units)</b> <i>Graduate Research</i> <b>(2nd Lab Rotation)</b>	<b>CHEM 295 (11 units)</b> <i>Graduate Research</i>	<b>CHEM 295 (11 units)</b> <i>Graduate Research</i>	<b>CHEM 295 (12 units)</b> <i>Graduate Research</i> <i>(each semester)</i>
<b>TIMELINE FOR ADDITIONAL REQUIREMENTS</b>	<b>Select Advisor</b> <i>by end of 2nd semester</i>	<b>Assemble Committee</b> <i>by end of 2nd semester</i>	<b>Pass Qualifying Exam</b> <i>may attempt 2 times, must pass by end of Year 3</i>		
	<b>TA Assignment</b> <i>must serve at least one semester</i>		<b>Advance to Candidacy</b> <b>Annual Committee Meetings</b>		
	<b>Pass Proficiency Exam (offered three times annually)</b> <i>Passing is a cumulative score of 6 points, with a 3 point score on one exam. Must pass before Qualifying Exam</i>		<b>Publish peer-reviewed manuscript(s) and/or Present work at scientific conference(s)</b> <i>to be presented at least once per year</i>		<b>Apply for Graduation</b> <b>Pass Dissertation Defense</b> <b>Submit Manuscript</b>