CCB - 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)**	
CORE COURSES (choose 3)	☐ **CHEM 212 (3 units)** *Molecular & Solid State Quantum Chemistry* and/or ☐ **CHEM 214 (3 units)** *Statistical Thermodynamics* (or PHYS 212 Statistical Mechanics)	☐ **CHEM 215 (3 units)** *Chemical Kinetics* and/or ☐ **CHEM 231 (3 units)** *Molecular Spectroscopy*			
ELECTIVES	☐ **Graduate Elective (3-4 units)** *to be approved by Educational Policy Committee*				
SEMINARS	☐ **CHEM 291 (1 unit)** *Chemistry Seminar*	☐ **CHEM 291 (1 unit)** *Chemistry Seminar*	☐ **CHEM 291 (1 unit)** *Chemistry Seminar*	☐ **CHEM 291 (1 unit)** *Chemistry Seminar*	
OTHER COURSES	☐ **QSB 294 (1 unit)** *Responsible Conduct of Research*				
RESEARCH	☐ **CHEM 295 (3-8 units)** *Graduate Research* **(1st Lab Rotation)**	☐ **CHEM 295 (4-5 units)** *Graduate Research* **(2nd Lab Rotation)**	☐ **CHEM 295 (11 units)** *Graduate Research*	☐ **CHEM 295 (11 units)** *Graduate Research*	☐ **CHEM 295 (12 units)** *Graduate Research (each semester)*
TIMELINE FOR ADDITIONAL REQUIREMENTS	☐ **Select Advisor** *by end of 2nd semester* ☐ **TA Assignment** *must serve at least one semester* ☐ **Pass Preliminary Exam (offered twice annually)** *may attempt 4 times, must pass by start of 4th semester*	☐ **Assemble Committee** *by end of 2nd semester*	☐ **Pass Qualifying Exam** *may attempt 2 times, must pass by end of 2nd year* ☐ **Advance to Candidacy** ☐ **Annual Committee Meetings** ☐ **Publish peer-reviewed manuscript(s) and/or Present work at scientific conference(s)** *to be presented at least once per year*		☐ **Apply for Graduation** ☐ **Pass Dissertation Defense** ☐ **Submit Manuscript**

Last updated 8/13/2018