

Sample program of study—Ph.D., physical chemistry emphasis

	Fall	Spring
Year 1	pass preliminary exam CHEM 212 (Quantum Chemistry) 3 units CHEM 214 (Thermo/Stat Mech) 3 units QSB 294 (Resp. Conduct of Research) 1 unit CHEM 291 (Graduate Seminar) 1 unit CHEM 299 (Independent Study) 4 units	CHEM 215 (Kinetics) 3 units CHEM 231 (Mol. Spectroscopy) 3 units CHEM 291 (Seminar) 1 unit CHEM 295 (Research) 5 units
Year 2	Graduate elective (3-4 units) CHEM 295 (Research) 7-8 units CHEM 291 (Seminar) 1 unit	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit Pass qual. exam, advance to candidacy
Year 3	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit
Year 4	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit
Year 5	CHEM 295 (Research) 11 units CHEM 291 (Seminar) 1 unit Defend dissertation	

Sample programs for organic chemistry, chemical biology, and computational chemistry emphases will be similar, with different specific courses taken in the first year.