Appendix B. Advanced Courses in Chemistry and the Proficiencies They Satisfy

Advanced courses must be taken for 3 semester hours to meet the proficiency requirement.

Course Number	Course Title	Proficiency
CHEM:4480	Introduction to Molecular Modeling	P
CHEM:4760	Radiochem: Energy, Medicine, Environment	I
CHEM:4873	Atmospheric and Environmental Chemistry	P
CHEM:4875	Introduction to Polymer Chemistry	O
CHEM:5107	Electrochemistry	A or P
CHEM:5108	Spectroscopy	A
CHEM:5109	Separations	A
CHEM:5110	Chemical Sensors	A
CHEM:5114	Chemical Systems Modeling	A or P
CHEM:5115	Biophotonics	A
CHEM:5118	Nanomaterials	P or I
CHEM:5120	Electrochemistry of Polymer Films	A or P
CHEM:5150	Chemometrics	A
CHEM:5199	Special Topics in Analytical Chemistry	A
CHEM:5202	Coordination Chemistry and Spectroscopy	I
CHEM:5203	Organometallic Chemistry	I
CHEM:5204	Physical Methods in Inorganic Chemistry	I
CHEM:5205	Bioinorganic Chemistry	I or B
CHEM:5206	Solid-State and Materials Chemistry	I
CHEM:5212	Mass Spectrometry	A
CHEM:5299	Special Topics in Inorganic Chemistry	I
CHEM:5321	Spectroscopic Methods in Organic Chem	O
CHEM:5326	Organic Reactions	O
CHEM:5328	Mechanisms of Organic Reactions	O
CHEM:5329	Advanced Organic Synthesis	O
CHEM:5399	Organic Chemistry Special Topics	O
CHEM:5431	Statistical Thermodynamics I	P
CHEM:5433	Quantum and Computational Chemistry	P
CHEM:5434	Molecular Spectroscopy	P
CHEM:5435	Chemical Kinetics	P
CHEM:5436	Electronic Structure & Informatics Chemistry	P
CHEM:5438	Surface Chem & Heterogeneous Processes	P or A
CHEM:5499	Physical Chemistry Topics	P

Key: A = analytical, B = biochemistry, I = inorganic, O = organic, P = physical