

**TYPICALLY OFFERED COURSES**

Subject	Catalog	Course Name	Schedule
BINF	4000	Bioinformatics and Computational Biology (also listed as CHEM 4860)	Spring
BINF	4500	Advanced Topics in Bioinformatics and Computational Biology	Spring
BINF	4540	Special Topics in Bioinformatics	Rarely Offered
CHEM	1000	Molecular Matter	Spring, Summer
CHEM	1010	Fundamentals of Chemistry	Fall, Spring, Summer
CHEM	1020	Fundamentals of Organic Chemistry	Fall, Spring
CHEM	1040	General Chemistry for Engineers	Fall, Spring, Summer
CHEM	1050	Introductory Chemistry	Rarely Offered
CHEM	1100	General Chemistry I	Fall, Spring, Summer
CHEM	1110	General Chemistry II	Fall, Spring, Summer
CHEM	2200	Organic Chemistry I	Fall, Spring, Summer
CHEM	2201	Organic Chemistry Laboratory I	Fall, Spring, Summer
CHEM	2211	Organic Chemistry Laboratory II	Fall, Spring, Summer
CHEM	2300	Introduction to Biomolecules	Fall, Spring
CHEM	3000	Nutritional Aspects of Biochemistry	Spring
CHEM	3100	Writing for Chemists	Fall, Spring
CHEM	3200	Organic Chemistry II	Fall, Spring, Summer
CHEM	3500	Quantitative Analysis	Fall, Spring
CHEM	3600	Inorganic Chemistry	Fall, Spring
CHEM	3800	Ancient and Modern Science (also listed as HIST 3800, PHIL 3800)	Spring
CHEM	3810	Honors Studies in Chemistry	Fall, Spring
CHEM	4142	Chemistry and Physics of Materials (also listed as PHYS 4142)	Fall - even years
CHEM	4200	Advanced Organic Chemistry	Fall - odd years
CHEM	4210	Polymer Chemistry	Spring - odd years
CHEM	4300	Introduction to Biochemistry	Fall, Spring
CHEM	4310	Biochemistry I	Fall, Spring
CHEM	4311	Biochemistry Laboratory I	Fall, Spring
CHEM	4320	Biochemistry II	Fall, Spring
CHEM	4321	Biochemistry Laboratory II	Fall, Spring
CHEM	4400	Fundamentals of Physical Chemistry	Rarely Offered
CHEM	4410	Physical Chemistry: Quantum Mechanics and Kinetics	Fall
CHEM	4420	Physical Chemistry: Thermodynamics	Fall, Spring
CHEM	4430	Physical Chemistry: Quantum Chemical Methods	Spring

CHEM	4431	Physical Chemistry Laboratory	Spring
CHEM	4432	Physical Chemistry: Quantum Chemical Methods Laboratory	Spring
CHEM	4450	Introduction to Atmospheric Chemistry	Spring - even years
CHEM	4460	Drug Delivery	Fall - even years
CHEM	4510	Advanced Analytical Chemistry: Optical Spectroscopy	Spring
CHEM	4520	Advanced Analytical Chemistry: Analytical Separations and Mass Spectrometry	Fall, Spring
CHEM	4530	Advanced Analytical Chemistry: Electrochemistry and Surface Techniques	Fall
CHEM	4810	Advance Synthetic Methods	Fall, Spring
CHEM	4820	Biomedical Seminars and Presentations	Fall, Spring
CHEM	4830	History of Chemistry	Fall
CHEM	4850	Bioinorganic and Bioorganic Chemistry	Fall - even years
CHEM	4860	Bioinformatics and Computational Biology (also listed as BINF 4000)	Spring
CHEM	4890	Molecular Science Capstone	Fall, Spring
CHEM	4980	Cooperative Educations (also listed as UNIV 4980)	Fall, Spring
CHEM	4990	Undergraduate Directed Study	Fall, Spring
CHEM	5000	Interdisciplinary Discoveries in Chemistry and Biochemistry	Fall
CHEM	5100	Introduction to Research	Fall
CHEM	5110	Graduate Seminar: Chemistry I	Spring
CHEM	5120	Graduate Seminar: Chemistry II	Fall
CHEM	5200	Synthetic Organic Chemistry: Analysis, Design and Methodoloy	Rarely Offered
CHEM	5210	Organic Structure Determination	Spring - odd years
CHEM	5320	Protein Structure	Spring -even years
CHEM	5330	Transcriptional Control of Gene Expression	Fall - odd years
CHEM	5340	Signal Transduction	Rarely Offered
CHEM	5350	RNA Structure and Function	Fall - even years
CHEM	5360	Posttranslational Modifications of Proteins	Rarely Offered
CHEM	5400	Quantum Chemistry	Fall - even years
CHEM	5410	Nuclear Magnetic Resonance Spectroscopy	Spring (even)
CHEM	5510	Thermodynamics and Kinetics of Materials	Spring - odd years
CHEM	5600	Advanced Inorganic Chemistry	Fall (odd)
CHEM	5910	Advanced Laboratory	Fall, Spring
CHEM	5960	Comprehensive Examination	Fall, Spring, Summer
CHEM	5970	Graduate Research	Fall, Spring
CHEM	5980	Graduate Directed Study	Fall, Spring
CHEM	5990	Thesis	Fall, Spring, Summer