

Elective Courses: Biochemistry Concentration

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Elective Courses: Inorganic Chemistry Concentration

Course Number	Course Name
CHEM 5100	Instrumental Methods of Analysis
CHEM 5200	Principles of Biochemistry
CHEM 5380	Practicum in Inorganic Chemistry
CHEM 5400	Organic Chem I: Mechanisms and Reactivity
CHEM 5430	Organic Chem II: Reactions and Synthesis
CHEM 5450	Structural Characterization of Organic Compounds
CHEM 5460	Special Topics in Chemical Reactivity and Physical Organic Chemistry
CHEM 5500	Topics in Quantum Chemistry
CHEM 5520	Topics in Physical Chemistry Kinetics
CHEM 5550	Topics in Colloid and Surface Science
CHEM 5570	Selected Topics in Physical Chemistry
CHEM 5580	Practicum in Physical Chemistry
CHEM 5730	Macromolecular Crystallography
CEES 5114	Aquatic Chemistry
CH E 5163	Heterogeneous Catalysis
CH E 5453	Polymer Science
CH E 5543	Materials Design for Energy Application
ECE 5323	Opto-Electronics I
ECE 5343	Quantum Structure and Devices
MBIO 5364	Transmission Electron Microscopy
MBIO 5374	Scanning Electron Microscopy
PHYS 5243	Solid State Physics

Elective Courses: Materials Chemistry Concentration

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Elective Courses: Organic Chemistry Concentration

Course Number	Course Name
CHEM 5100	Instrumental Methods of Analysis
CHEM 5110	Spectroscopic Chem Analysis
CHEM 5120	Separation Methods
CHEM 5160	Special Topics in Analytical Chemistry: Instrumentation
CHEM 5170	Special Topics in Analytical Chemistry: Methodology
CHEM 5200	Principles of Biochemistry
CHEM 5210	Molecular Biology
CHEM 5240	Biochemical and Biophysical Methods
CHEM 5260	Special Topics in Biochem I
CHEM 5270	Special Topics in Biochem II
CHEM 5300	Intermediate Inorganic Chemistry
CHEM 5330	Advanced Inorganic Chemistry
CHEM 5360	Frontiers in Inorganic Chemistry
CHEM 5450	Structural Characterization of Organic Compounds
CHEM 5460	Special Topics in Chem Reactivity and Phys Org Chem
CHEM 5470	Special Topics in Bioorganic and Specialized Organic Compounds
CHEM 5480	Practicum in Organic Chemistry
CHEM 5540	Computational and Theoretical Chemistry
CHEM 5730	Macromolecular Crystallography
CHEM 5750	Macromolecular Structure and Function
MBIO 5783	Introduction to Python Programing for Data Analytics

Elective Courses: Structural Biology Concentration

Course Number	Course Name
CHEM 5100	Instrumental Methods of Analysis
CHEM 5110	Spectroscopic Chem Analysis
CHEM 5120	Separation Methods
CHEM 5200	Principles of Biochemistry
CHEM 5210	Molecular Biology
CHEM 5260	Special Topics in Biochem I
CHEM 5270	Special Topics in Biochem II
CHEM 5400	Organic Chem I: Mechanisms and Reactivity
CHEM 5430	Organic Chem II: Reactions and Synthesis
CHEM 5460	Special Topics in Chemical Reactivity and Physical Organic Chemistry
CHEM 5470	Special Topics in Bioorganic and Specialized Organic Compounds
CHEM 5760	Special Topics in Structural Biology
BIOL 5923	Programming in R for Biology
DSA 5103	Intelligent Data Analytics
MBIO 5364	Transmission Electron Microscopy
MBIO 5374	Scanning Electron Microscopy
MBIO 5394	Advanced Light Microscopy
MBIO 5783	Introduction to Python Programing for Data Analytics
MBIO 5903	Topics in Virology