



Graduate Chemistry Courses, Including Special Topic Titles

Please note that only a selected number of courses are offered on a yearly basis and all *Selected Topic* titles are abbreviated to conform to the requirement to provide truncated titles for transcripts.

CHEM 710/7100 Selected Topics in

Inorganic Chemistry

- 1 Adv Coordination Chemistry
- 2 Main Group Chemistry
- 3 Inorganic Materials
- 4 Molecular Materials
- 5 Homogeneous Catalysis
- 6 Structure & Bonding in the Solid
- 7 Solid State Materials Chem
- 8 Bioinorganic Chemistry
- 9 Advanced Main Group Chemistry
- 10 Solid State Chemistry
- 11 X-Ray Absorption Spectroscopy
- 12 Struct & Fcnctn Suprmlclr Mtrls
- 13 Nanostructural Materials
- 14 Nanostructured Materials
- 15 Ad Sol St Chem-I, E & M Transp
- 16 Catalysis-Prncpls & Indst Apps
- 17 Nanostrcrd MatrIs/Intgrtv Chem
- 18 Block Coplymr Micelle Nanomtrl
- 19 Suprmlclr & Nanostrctrd Mtrls
- 20 Adv Main Group Chem

CHEM 712/7120 X-Ray Crystallography

CHEM 713/7130 Chemistry of Inorganic Solid State Materials

CHEM 715/7150 Structure & Bonding in Inorganic Chemistry

CHEM 717/7170 Advanced Transition Metal Chemistry

CHEM 718/7180 Advanced Organometallic Chemistry

CHEM 720/7200 Selected Topics in Analytical Chemistry

- 1 Analytical Atomic Spectrometry
- 2 Advanced Bioanalytical Chem
- 3 Surface Electrochemistry
- 4 Cmp Fld Dynmcs Appl to Chem In
- 5 Mass Spectrometry
- 6 Fundamentals of Electrochem.
- 7 Rcnt Adv in Appld Mass Spctrm
- 8 Spectroscopic Mthds Analytical
- 9 Fund of Mass Spectrometry
- 10 Contemporary Mass Spectrometry
- 11 Intro to Exp Design & Chemomet
- 12 Adv Bioanalytical Chem
- 13 Biosensors and Nanotech
- 14 Nanomtrl 4 E conv&clean env

CHEM 724/7240 Chemical Instrumentation

CHEM 726/7260 Topics in Analytical Spectroscopy

CHEM 727/7270 Separations

CHEM 728/7280 Electroanalytical Chemistry

CHEM 729/7290 Surface Analysis

CHEM 730/7300 Proteins and Nucleic Acids

CHEM 731/7310 Selected Topics in Biochemistry

- 1 Metaloproteins & Metaloenzymes
- 2 Physical Biochemistry
- 3 Advanced Microbial Physiology
- 4 Chem of Enzymatic React Mechan
- 5 Biochemical Pharmacology

6 Spectroscopy of Biomolecules

- 7 Macromolecules: Biol Interest
- 8 Medicinal Chem&Drug Discovery
- 9 Biochemical Toxicology
- 10 NMR and Biological Systems
- 11 Apld Spctrscty of Biomolecul
- 12 Physical Biochemistry
- 13 Bioinorganic Chemistry
- 14 Bioinorganic Protein Chemistry
- 15 Glycobiology
- 16 Enzymatic Reaction Mechanisms
- 17 Biological Membranes
- 18 Biomolecular NMR Spectroscopy
- 19 Chemical Biology
- 20 Cmp mths-stdy'g protein strctr
- 21 Protein Folding Engrnr & Design
- 22 NMR based Prot Strctr Dtrmnatn
- 24 Vaccine Discovery & Dev
- 25 Glycomics
- 26 Adv Topics in Toxicology
- 27 Biochemical Toxicology
- 28 Struct & Functn Nucleic Acids
- 29 BioOrganic

CHEM 736/7360 Regulations in Biological Systems

CHEM 737/7370 Enzymes

CHEM 738/7380 Cell Membranes and Cell Surfaces

CHEM 740/7400 Selected Topics in

Theoretical Chemistry

- 1 Potentials in Diatomic Spectra
- 2 Energies, Intensities & Ptnls
- 3 Select Topics in Computnl Chem
- 4 Thry & Prctc of Crmptatnl Chem
- 5 Computational Chemistry
- 6 Quantum Mechanics in Chemistry
- 7 Electronic Structure of Solids
- 8 Spectroscopic Det Intermolecul
- 9 Molclr Dynamcs & its Applctns
- 10 Qtm Info & Ctrl in Phys Systms
- 11 Mag res &-spin-based QI pro
- 12 Computational Chemistry
- 13 Spin-based QI Processing
- 14 Quantum Molecular Dynamics
- 15 Molecular Modelling

CHEM 745/7450 Statistical Mechanics

CHEM 746/7460 Quantum Chemistry

CHEM 750/7500 Selected Topics in Physical Chemistry

- 1 Synth/Prop of Nanomaterials
- 2 Principles of NMR Spectroscopy
- 3 Topics in NMR Spectroscopy
- 4 Surface Sci&Nanomaterials Tech
- 5 Atmospheric Remote Sensing
- 6 Aqueous Solutions
- 7 Spectroscopy
- 8 Topics in Environmental Cataly
- 9 Molecular Films
- 10 Molecular Spectroscopy
- 11 Bioelectronics
- 12 Topics in Computational Chem
- 13 Statistical Mechanics
- 14 NMR Spectroscopy

15 Phys Chem of Surfactants

- 16 Many-body Elctrcn Strctr Thry
- 17 Surface Sci & Nanotechnology
- 18 Design in Quantum Systems
- 19 Carbon Nanotube Electronics
- 20 Atomic and Molecular Clusters
- 21 Process at Micro Nano Scales
- 23 Proc at Micro-Nano Scales
- 24 Aqueous Sol'ns & Interfac
- 25 Ultrafast Spectroscopy

CHEM 755/7550 Kinetics - Dynamics

CHEM 756/7560 Spectroscopy

CHEM 760/7600 Selected Topics in Organic Chemistry

- 1 Natural Products Chemistry
- 2 Organomet. Reagents in Organic
- 3 Adv. Carbohydrate Chemistry
- 4 Tps in Natural Products Chem
- 5 Organic Electro-Prin & App
- 6 Organ Reagents in Org Synth
- 7 Asymtrc Synthesis & Catalysis
- 8 Natural Product Synthesis
- 9 Bioorganic Chemistry
- 10 Mlclr Mdlg-Orgnc/Biorgnc Chem
- 11 Modelling for Organic Chem
- 12 Biomedical Methods
- 13 Organometallics in Organic Syn
- 14 Cellulose Biosynthesis
- 15 Prod Chem/Syn Mtds
- 16 NMR Spectscopy for Syn Chem
- 18 Synthesis Pharmaceut Subst
- 19 Heteroatoms in Org Chem
- 20 Nat Prod Chem/Syn Mtds Org Chm

CHEM 764/7640 Synthetic Organic Reactions

CHEM 765/7650 Strategies in Organic Synthesis

CHEM 766/7660 Organic Spectroscopy

CHEM 769/7690 Physical Organic Chemistry

CHEM 770/7700 Principles of Polymer Science

CHEM 771/7710 Physical Properties of Polymers

CHEM 772/7720 Polymerization and Polymer Reactions

CHEM 773/7730 Selected Topics in Polymer Chemistry

- 1 Ionic Polymerization
- 2 Phys Charac of Polymers
- 3 Phys Char Syn Macromolecules
- 4 Polymer Prop - Polymerization
- 5 Dvlpmt Ionic Plymr & Rel Techs
- 6 Introduction to Polymer Scienc
- 7 Phy Char Bio & Syn Macro
- 8 Polymer Synthesis & Properties
- 10 Block Coplymr Micelle Nanomtrl
- 11 Synth, Self-Assem & Mat Appl
- 12 Metal-Containing Polymers
- 13 Mtl-Ctn plmers: Syn & Mtl Appl
- 14 Living Polymerization Tech

CHEM 794/7940 MSc Seminar
UW Milestone/CHEM 7950 PhD Seminar
UW Milestone/UG UNIV 7010 PhD Oral Comprehensive Exam
UW Milestone/CHEM 7970 MSc Research Paper
UW Milestone/CHEM 7980 MSc Thesis
UW Milestone/CHEM 7990 PhD Thesis