Course Schedule

Special	Day	Date	<u>Ch</u>	Topic
	R	8/20	1/1	Overview – Expectations – Projects – The Atom – Nuclear Properties
	_	0/25	1 /1	Electrons in atoms. Energy Levels. Quantum Numbers. Radial
	Т	8/25	1/ 1	Electron Distributions. Electron Configurations.
	R	8/27	1/ 1	Slater's Rules. Z _{eff} control of Periodic Properties. Magnetism.
		0/2/	1/1	Ground State Term Symbols.
Quiz #1	Т	9/1	2.1/ 2	Electrons in Molecules: Valence; Covalence; Polar Molecules.
				The Chemical Bond. Lewis Structures.
	R	9/3	2/ 2	Lone Pair Repulsions. (VSEPR as Guide to Geometries of Molecules).
				Shapes of Molecules and Valence Bonds. Symmetry in Molecules: Elements and Operations.
Quiz #2	Т	9/8	6/ 3	Symmetry Operations and Point Group Classification
	R	9/10	6/ 3	Applications of Group Theory Selections from Ch. 6 or 3
Quiz #3		9/15	2/ 2	M.O. Theory: Diatomics. Catch up and Review
Exam I	R	9/17	<i>۱</i> ۲	Examination I
LAGIIII	11			Molecular Orbitals and Diatomics; Energy Levels.
	T	9/22	2/ 2	Molecular Orbitals and Assignments; Bond Properties.
				Molecular Orbitals in Polar Diatomics—Heteronuclear diatomics.
	R	9/24	2/ 2	Electronegativity defined by MO theory: Bond dipoles and
			•	molecular dipole moments
Poster Outline due	Т	9/29	2/ 2	MO's in Polyatomics. Structures of Simple Solids, Metals, and alloys.
Quiz #4	R	10/1	3/4	Ionic Solids. Energetics of ionic bonding.
	T	10/6	4/5	Acids and Bases
	R	10/8	4/5	Acids and Bases
	T	10/13	4/5	Acids and Bases
Quiz #5	R	10/15	9/10	Main Group Element Chemistry
Exam II	T	10/20		Examination II
	R	10/22	9/10	Hydrogen
	Т	10/27	5 /6	Redox processes
Quiz #6	R	10/29	5 /6	Redox processes
	Т	11/3		Power Point Virtual Presentations
	R	11/5		Power Point Virtual Presentations
	Т	11/10	7/ 7	Transition Metals/Coordination Chemistry
	R	11/12		Transition Metals/Organometallics
Exam III	Т	11/17		Transition MetalsCatalysis
	R	11/19		Coordination Chemistry—Bioinorganic TBA
	Т	11/24		Coordination Chemistry—Bioinorganic TBA
		11/30		NO CLASS – Reading Day
FINAL				FINAL EXAM – Virtual TBD