Syllabus CHEM 541/641 - BCEM 541

General Biomolecule-Toxin interaction principles Microbes and organic pollutants Microbes and metals (Toxicity and Resistance) Microbes and the Antibiotic toxin.

Principles of ecotoxicology - biology + chemistry + <u>ecology</u> Environment policy and regulation - strategies, guidelines, and case studies Modern ecotoxicology - emerging contaminants, mixtures, and sub-chronic endpoints Endocrine disruption, genetic, and metabolic effects in fish

Air pollution - gases Air pollution - particular matter Air pollution - current research trends on the link between air pollution and health

Elements & Life Introduction to the toxicology of metals Case Study: Minamata Disease Probing metal exposure-disease relationships Introduction to Chemotherapy

Dept Approval:

Approved by Department Head

Date: January 10, 2019