Fundamental chemistry concepts applicable in wide-ranging aquatic processes.

- Apply the concepts to understand the distribution of chemical species in natural aquatic systems, e.g. surface waters and ground waters.
- Focus on fresh water systems and on inorganic species therein.
- Hands-on problem-solving techniques to illustrate acid-base, solubility, complex-formation, and oxidation-reduction equilibria.
- Predicting the equilibrium concentrations and distribution of inorganic species in ground and surface waters under a variety of natural conditions
- Predict the impact of pollutants and of natural and engineered processes on the inorganic chemical species.
- Utilize both graphical and computational methods for determining the speciation of multi-component aqueous systems.