

# CHEM 115: The Chemical Elements of Nutrition

Just twenty chemical elements are essential for human nutrition. We will focus on the atomic composition and structure of these elements; consider how some of these elements combine to make larger compounds and macronutrients (molecular structure and bonding); explore how their structures affect their solubility and acidity/basicity and examine the reactions (oxidation and hydrolysis) that micro- and macro-nutrients undergo to producing energy for the human body. Team-based learning and laboratory exercises will emphasize critical thinking and real-world applications of chemistry to nutrition. This course is appropriate for students not intending to continue in fields requiring foundational chemistry. Not open to students who are enrolled in or who have taken and passed CHEM 150 with at least a grade of C- or P.

**Units:** 3

**Program:** [ChemistryPhysical Science](#)