

# Environmental Science (ENSC)

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## Courses

### **ENSC 50201. Water Quality Laboratory. 1 Hour.**

Field and laboratory experience in physical, chemical, and biological characteristics of natural waters (rain, river, lake, soil, ground, etc.). Laboratory experiments in water sampling, measurement of water quality parameters such as pH, alkalinity and acidity, redox, hardness, BOD, TSS, etc., and instrumentation. (Typically offered: Fall)

### **ENSC 50203. Water Quality. 3 Hours.**

Physical, chemical, and biological characteristics of natural waters (rain, river, lake, soil, ground, etc.). Discussion of water quality parameters such as pH, alkalinity and acidity, redox, hardness, BOD, TSS, etc. Aquatic processes of pollutants and principles of modeling. Prerequisite: CHEM 14203, CHEM 14201, BIOL 10103 and BIOL 10101 or equivalent courses from undergraduate institution. (Typically offered: Fall)

### **ENSC 50303. Analysis of Environmental Contaminants. 3 Hours.**

Methods of analysis for inorganic and organic contaminants, and microorganisms in soil and water. Quality assurance and quality control, sampling protocols, sample handling, instrumentation and data analysis. Lecture 3 hours. Prerequisite: Graduate standing. (Typically offered: Spring Even Years)

### **ENSC 54001. Professional Certification Preparation. 1 Hour.**

This class is meant to reinforce concepts and skills already learned in other soil and environmental science and related courses and to provide the opportunity to prepare to take a national certification examination. If so chosen, students may pursue certification as soil or environmental science professionals. (Typically offered: Spring)