

## **Introduction to Applications of Elemental Chemical Analysis and Electron Microscopy in Earth and Environmental Sciences**

Geological Sciences 674

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	Office hours: the hour immediately after class or by arrangement	

The class will meet for one hour each week.

This course will briefly introduce students, particularly new graduate students, to applications of data in earth and environmental sciences that can be acquired on instruments that are available in the Department of Geological Sciences. The goal of the class is to make students aware of some of the potential applications of elemental chemical and electron microscopy measurements to enable and enhance their research. Specific applications to be discussed in the class will be tailored to the research interests of the students in the class.

The course grade (S/U) will depend on class attendance and assignments based on scientific journal articles. Class assignments outside of the class meeting time will consist of reading one scientific journal article, to be provided by the instructors, each week, and providing written answers to a short series of questions on each article. In addition, each student will suggest and briefly describe, at least one specific application of elemental chemical or electron microscopy measurement that could be applied to their area of research interest. In order to earn an S, students will need to do all of the following: attend at least 7 of the classes, earn a 70% average on the short questions on the research articles (each week's questions will be equally weighted for grading) and suggest a viable application of elemental chemical and/or electron microscopy measurements to their general area of research.

### **Academic Misconduct**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct ([http://studentaffairs.osu.edu/info\\_for\\_students/csc.asp](http://studentaffairs.osu.edu/info_for_students/csc.asp)).

### **Disability Services**

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office of Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>.