

## **ZOOL 559- Analytical Techniques in Toxicology**

Offered: Every other fall semester

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Textbooks: James M. Miller, Chromatography Concepts and Contrasts, 2nd, John Wiley & Sons, Inc. Hoboken, New Jersey, 2005, ISBN: 0-471-47207-7. John R. Dean, Extraction method for environmental analysis, John Wiley & Sons Inc., New York, 1998, ISBN: 0471982873

Environmental scientists currently have available to them an amazing array of powerful tools for obtaining qualitative and quantitative information about contaminants in the environment. However, the efficient use of these analytical instruments requires an understanding of the fundamental analytical principles, techniques, and hands-on experience with the various methods. This course will cover commonly used analytical techniques used in environmental toxicology (e.g. TLC, GC, LC) and focus on chromatography and sample preparation methods. This is an advanced class for graduate students interested in the analytical tools used in the field of environmental toxicology. Prerequisites: one semester of organic chemistry or consent of instructor.