University of Wisconsin - Madison College of Engineering [EGR] Last Offered: 2013 Fall [1142] Direct Link to this Syllabus:

http://aefis.engr.wisc.edu/index.cfm/page/CourseAdmin.ViewABET?coursecatalogid=792&pdf=True

- 1. CIV ENGR 501, Water Analysis-Intermediate
- 2. Credits: 2.00 Contact Hours:
- 3. Textbook and Materials: Not required
- 4. Specific Course Information:
 - a. **Brief description of the content of the course (Course Catalog Description) :** Principles and applications of chemical and instrumental methods for the chemical analysis of water.
 - b. Pre-requisites or Co-requisites: Chem 223
- 5. Specific Goals for the Course:
 - a. Course Outcomes:
 - **b. ABET Student Learning Outcomes:**
 - (a) Ability to apply mathematics, science and engineering principles.
 - (b) Ability to design and conduct experiments, analyze and interpret data.
 - (d) Ability to function on multidisciplinary teams.
 - (e) Ability to identify, formulate and solve engineering problems.
 - (g) Ability to communicate effectively.
 - (h) The broad education necessary to understand the impact of engineering solutions in a global and societal context.
 - (j) Knowledge of contemporary issues.
 - (k) Ability to use the techniques, skills and modern engineering tools necessary for engineering practice.
 - c. **Program Specific Student Outcomes :** (l) An ability to explain basic concepts in management, business, public policy, and leadership
 - (n) An ability to understand common failure mechanisms of a component, process, or system and their causes and prevention