



**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=638&pdf=True>

**1. CIV ENGR 503, Water Analysis - Intermediate Lab**

**2. Credits : 1.00    Contact Hours :**

**3. Textbook and Materials :** Not required

**4. Specific Course Information :**

- a. **Brief description of the content of the course (Course Catalog Description) :** Application of chemical and instrumental methods to the analysis of waters.
- b. **Pre-requisites or Co-requisites :** Chem 223, con reg in Civ Engr 501, cons inst

**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.
- (i) Recognition of the need for and an ability to engage in life-long learning.
- (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 :** (n) An ability to understand common failure mechanisms of a component, process, or system and their causes and prevention