

**Chemistry 4130**  
**Water Chemistry**  
**Fall 2016**

**Instructor:** Dr. Stephanie A. Myers

**Office:** SCI C3008

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**Office Hours** MWF 9:30 – 10:30 am

or by appointment

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**Objective:** Study of how water quality is monitored and maintained and the effect of water quality on home, industry and the environment. The course includes a study of typical impurities, including how these impurities are detected, removed or mitigated and how these impurities are related to problems such as corrosion and toxicity.

**Materials:** *Applications of Environmental Aquatic Chemistry* by Eugene Weiner, a composition book, and water quality test kit (supplied by the department).

**Grading:**

*Tests:* There will be a three exams, each worth 100 points. The two in-class exams will be worth 100 points. The last exam, held during the final exam period, will emphasize current information but will reflect the entire course and be worth 150 points.

*Project:* Total = 100 points. A major component of the course will be a water quality monitoring project. Each student will select a different body of water and monitor it weekly (at least 10 data points) using the provided test kit and other materials as needed. The parameters that will be monitored will be discussed in class then detailed on the website. The results will be recorded in the student's composition book, then a final written and oral report of the results concentrating on changes over time and whether they are natural or not will be given. The composition book (Lab notebook), oral report and written report will ALL be graded.

*Other assignments:* There will be various other assignments (10 to 40 points). These will be given a point value at the time of the assignment. These may consist of short reports, position papers or problems from the text or instructor. There will be at least one homework assignment per topic.

Your grade will be based on the percentage of points earned out of those possible: with 90% or greater an A; 89-80% a B; 79-70% a C; 69-60% a D; and less than 60% an F.

**Attendance:** You are expected to attend all classes. Some classes may consist of "field trips" and attendance is required for these as well. You may be asked to tour on your own if you were not available for the class. If you miss a class, it is your responsibility to find out what material was covered and what announcements were made. Any student more than 15 minutes late for a lecture will be considered absent. Absence from 4 lectures and/or labs is considered cause to drop a student from this course. The instructor will only withdraw a student after midterm with a grade of WF.

**Makeups:** If you miss an exam, you must contact me within 24 hours and schedule a make-up, which must be taken as soon as possible (normally before the next class period). If you are aware of the absence in advance, you must schedule a time to take the exam early. If you do a make-up, I may require documentation, if I do grade will remain a zero until I receive documentation of your excuse. Documentation must be from an authority I recognize.

**Late Penalties:** There will be a 5 point per day late penalty on assignments. If assignment does not meet prescribed standards, it will be returned and the late penalty will be 5 points every day thereafter.

**Tentative Calendar:**

|                     |                              |
|---------------------|------------------------------|
| <b>September 20</b> | <b>Exam 1</b>                |
| <b>October 27</b>   | <b>Exam 2</b>                |
| <b>December 1</b>   | <b>Water Quality Reports</b> |
| <b>December 14</b>  | <b>Exam 3 (11 am – 1 pm)</b> |