Syllabus for Trace Element Cycling in the Environment CHM 522

Instructor: Edith Chopin, Ph.D., Assistant Professor

Class: W 6 – 9 PM in 378 SEB

Office hours: “open door” or by appointment Phone (248) 370-2339    Email: chopin@oakland.edu

Objectives:

Identification and characterization of the different compartments involved in inorganic element cycling and of the results from interactions between the compartments

1. Introduction - occurrence in the environment, role in nutrition, health and diseases, cycling & different compartments involved

2. Terrestrial environment:
   a) Rock formation and composition
   b) Weathering processes and products
   c) Soil characterization
   d) Living organisms
   e) Cycling: major nutrients, deficiency and contamination issues

Mid-term Exam (date to be determined)

3. Atmospheric environment

4. Aquatic environment
   a) Surface waters
   b) Wetlands
   c) Groundwater
   d) Marine environment

5. Field, analytical and statistical methods for inorganic element determination and characterization

Final Exam    W Dec. 10   6 – 9 PM    in 378 SEB
**Expectations:**

1. Devise plans to investigate specific study case.
2. Chose critically field, analytical and statistical methods for specific cases and objectives.

**Policy on Academic Misconduct:**

The University’s regulations that relate to academic misconduct will be fully enforced.

Any student suspected of cheating will be referred to the Academic Conduct Committee.

Students found guilty of academic misconduct face suspension or permanent dismissal.

**Grading Scale:**

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<thead>
<tr>
<th>Considered “A”s</th>
<th>Considered “B”s</th>
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<tbody>
<tr>
<td>4.0</td>
<td>3.4</td>
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<tr>
<td>95.00-100</td>
<td>78.38-80.74</td>
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<td>3.9</td>
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<td>92.63-94.99</td>
<td>76.00-78.37</td>
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<td>3.8</td>
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<td>90.25-92.62</td>
<td>73.63-75.99</td>
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<td>87.88-90.24</td>
<td>71.25-73.62</td>
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Considered “C”s: 2.0-2.9

Considered “D”s: 1.0-1.9

**Formula: GPA = % points awarded / 23.75**

**Grading:**

- Mid-term exam 25%
- Participation (including oral presentation) 30%
- Final Exam 45%

If class is missed, alternatives can be proposed to make up participation.