Syllabus for Environmental Fate & Transport ENV 485

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

Class: Tuesdays & Thursdays 5:30 – 7:17 PM in 364 SFH

Office hours: “open door” SEB 252 or by appointment

Phone (248) 370-2339 Email: chopin@oakland.edu

Objectives:

Understanding the sources of elements, the key concepts governing their fate and transport, and how they pertain to the different compartment of the total environment.

1. Introduction to fate and transport
2. Sources and occurrence of inorganic and organic elements in the environment
3. Key concepts controlling fate and transport
4. Aquatic environment:
   a) Surface waters
   b) Groundwater
   c) Wetlands
   d) Marine environment

Mid-term Exam (date to be determined)

5. Terrestrial environment:
   a) Rock formation and composition, weathering processes and products
   b) Soils

6. Atmospheric environment:
   a) Local and regional air pollution
   b) Global atmospheric problems

Final Exam Tuesday Dec. 8 7 – 10 PM in 364 SFH
Expectations:

1. Chose critically calculation methods to estimate element transport.

2. Understand the interactions between elements and the different environment matrices in order to determine fate and transport.

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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<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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<tr>
<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>3.7</td>
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<td>87.88-90.24</td>
<td>71.25-73.62</td>
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<td>3.6</td>
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<td>85.50-87.87</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:

- Home- & in-class work: 25%
- Mid-term exam: 25%
- Oral presentation: 25%
- Final Exam: 25%