

**"CLEANING UP OUR MESS: REMEDIATION OF TERRESTRIAL AND
AQUATIC ENVIRONMENTS"
(EESD15H3-F L01)**

Instructor: Dr. Silvija Stefanovic

Lecture: Friday 12 3pm; BV264

Office: EV366

Office hours: Friday 3

416-208-4873

TAs: TBA

Office: TBA

Office hours: TBA

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Intent of the course:

This course consists of a study of the ways in which hazardous organic and inorganic materials can be removed or
PHYA10H

_____ or [PHYA11H](#)

Suggested readings:

for Soils and Groundwater Task Committee of the Environmental Council, Environmental and Water Resources
Institute (EWRI) of the American Society of Civil Engineers ; edited by Alok Bhandari ... [et al.].Reston, Va. :
American Society of Civil Engineers, c2007.

Lecture notes:

The lecture slides will be posted in *.pdf format on the Blackboard. You will require Adobe Reader to open the files
(available free of charge at www.adobe.com).

Course email policy:

Email is not an effective way of teaching and email inquiries regarding course materials will not be answered.
Dr. Stefanovic will be available during designated office hours to answer questions regarding course material. If you
have questions, then please see instructor during office hours

Grading:	Term assignments (2):	20% (2x10%)
	Seminar:	5%
	Quiz	5%
	Final Project Report:	15%
	Final Project Presentation:	10%
	Participation:	5%
	Final Exam:	40%

Assignments:

You will have calculation problems to solve for each of two group assignments. You will be able to access the problem sheets on the Blackboard at the times detailed below. More details on the assignments will be circulated during the term.

<i>Topic</i>	<i>On the Blackboard</i>	<i>Due date</i>
Assignment #1	Sept. 25 th	Oct. 9 th
Assignment #2	Oct. 30 th	Nov. 13 th

Seminar:

You will be assigned a specific type of contaminants and you will need to present its chemistry, sources, fate, and toxicology during short in class presentation (8min). This is a group seminar with 3-4 students per group. Topics will be given during the first lecture. One page Summary plus references and maximum eight Power Point slides to be sent to instructor day before the presentation. After the presentations the rest of the students will need to submit hand written summaries for the participation mark. More information. Aftd at ntat. MCID 28-BDC BT1 0 0 43T1 0

Lecture topics:

1. Introduction, ground rules, expectations and course structure.

What is contaminated site? Introduction to soil and groundwater remediation.

2. Basic soil and groundwater properties (review)

3. Properties of Contaminants (**Students' seminars**)

4. Environmental site assessment; Investigative methods; Natural attenuation. **Assignment #1**

5.

Sept. 4th

Sept. 11th

Sept. 18th

Sept. 25th