

# Soil Contamination & Remediation

SWS 6262 - 3 credits, Fall 2014

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## INSTRUCTOR

Dr. Lena Q. Ma, 2157 McCarty Hall A, 352-294-3135, [lqma@ufl.edu](mailto:lqma@ufl.edu), and <http://lqma.ifas.ufl.edu>.

## TEACHING ASSISTANT

Evandro da Silva, 2176 McCarty Hall A, 294-3148, [ebsilva@ufl.edu](mailto:ebsilva@ufl.edu) (home works and chat sessions).

## OPTIONAL REFERENCE BOOKS

[Management of contaminated site problems](#) by D.K. Asante-Duah. 1996. CRC Press.

[Reclamation of contaminated land](#) by C. P. Nathanail & P. Bardos. 2004. John Wiley.

[Soil pollution: origin, monitoring & remediation](#) by I.A. Mirsal. 2010. Springer.

## COURSE FORMAT

The course consists of lectures, guest lectures, student presentations, chats using Mbreeze and field trips. On-campus (OC) students attend the class at **McCarty Hall D G-001 M, W & F 6<sup>th</sup> period (12:50 to 1:40 pm)**, whereas distant education (DE) students access the recorded lectures via internet.

## COURSE WEB SITE

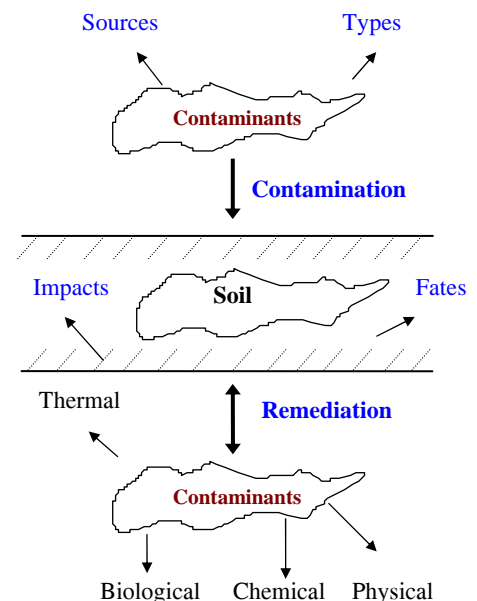
**Chat web site via Mbreeze:** <http://mbreeze.ifas.ufl.edu/sws6262>: Enter as a guest and type your first name.

**Class web site:** <http://lqma.ifas.ufl.edu/SWS6262/SWS6262.html>.

- DE students obtain ALL class information via internet. Use your Gatorlink account to log in for password-protected files. **Please enter your UF e-mail as the user name.**
- The class web site provides the following information:
  1. Recorded lectures with associated readings (wmv)
  2. All presentations and handouts used in class (ppt & pdf)
  3. Supplement reference materials (pdf)
  4. Threaded chat via Mbreeze
  5. Glossary of terms
  6. Related online resources

## COURSE DESCRIPTION

- This course will examine *current interdisciplinary topics* on soil contamination & remediation. Topics include: environmental **contaminants** and their **sources** in the environment, **pathways** to contaminate soils, **impacts** on the environment, **fates** in soils, and **remediation**. Development and application of new remediation technologies will be the focus of this course.
- A brief review of basic soils will be provided.
- Experts from various environmental disciplines will be invited to the class.
- Field trips will be arranged to visit contaminated sites in Florida.



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GRADING SYSTEM	Pts (%)
Home work	35
Class and chat participation	25
Research paper	20
Field trip and report	10
Presentation	10
<b>Total</b>	<b>100</b>

## HOMEWORK (35%)

- Students are expected to finish 6 homework with the lowest one being dropped
- Save as “HW#-first name” and submit as e-mail attachment of a **single-space** Word file
- There will be **10% a day** penalty for late homework submission.

## CLASS PARTICIPATION & CHAT (25%)

- OC students are expected to attend ALL lectures. While DE students are expected to attend ALL chats, OC students are expected to attend 2-3 chat sessions, which is every **Tuesday 7-9 pm**.
- To facilitate learning, every DE student is expected to prepare 1 question from each lecture (3 a week) and send them to the TA and copy to the instructor the following **Monday** via e-mail with a subject title of “**Question #-first name**”. The questions from previous week will be compiled and discussed during the chat session.

## RESEARCH PAPER & CLASS PRESENTATION (30%)

- Students are expected to write a 10-page single-space research paper on soil remediation technology.
- Students are expected to give a 30-minute presentation on the research paper
- Everyone in the class is expected to ask 1-2 questions after the presentation to stimulate discussions.

## ONLINE POSTING OF ALL ASSIGNMENTS

- Detailed guidelines on research paper and class presentation will be posted online.
- All assignments & due dates including homework, research paper & presentation will be posted online.

### Academic Honesty

As a result of completing the registration form at the University of Florida, every student has signed the following statement: "I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University."

### Software Use

All faculty, staff and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

### Accommodations for Students with Disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

### UF Counseling Services

Resources are available on-campus for students having personal problems or lacking clear career and academic goals, which interfere with their academic performance. These resources include:

- University Counseling Center, 301 Peabody Hall, 392-1575, personal and career counseling;
- Student Mental Health, Student Health Care Center, 392-1171, personal counseling;
- Sexual Assault Recovery Services, Student Health Care Center, 392-1161, sexual assault counseling; and
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.